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PTO-1590 (1-2000)

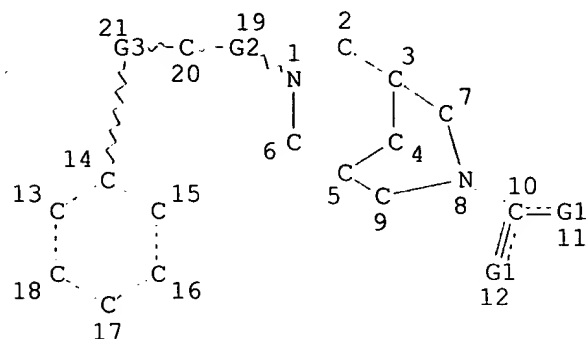
MARY 704.9

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=> d l3 que stat;d 1-150 ide cbib abs
L1 STR



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REP G3=(0-7) A
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DEFAULT ECLEVEL IS LIMITED

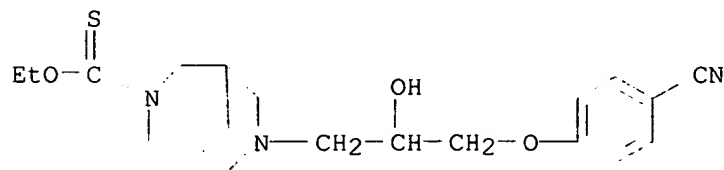
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STEREO ATTRIBUTES: NONE
L3 150 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 3491 ITERATIONS
SEARCH TIME: 00.00.07

150 ANSWERS

L3 ANSWER 1 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 389886-85-5 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carbothioic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, O-ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H27 N3 O3 S
SR CA
LC STN Files: CA, CAPLUS



Searched by: Mary Hale 308-4258 CM-1 12D16

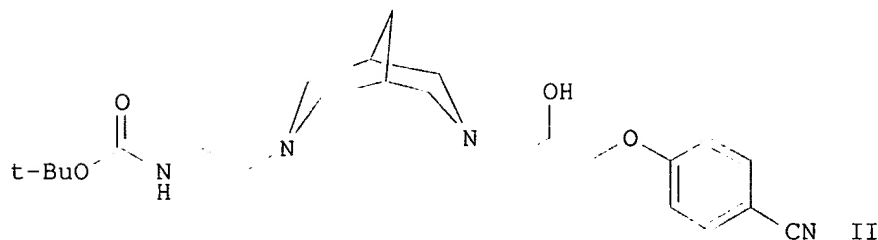
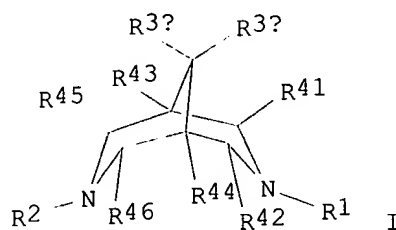
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:118479 Preparation of new bispidine compounds for the treatment of cardiac arrhythmias. Andersson, Kjell; Bjoere, Annika; Bjoersne, Magnus; Ponten, Fritiof; Strandlund, Gert; Svensson, Peder; Tottie, Louise (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2002004446 A1 20020117, 110 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-SE1544 20010704. PRIORITY: SE 2000-2603 20000707; SE 2000-2788 20000727.

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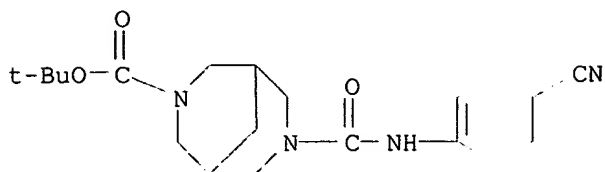


AB The title compds. [I; R1 = ACR4R5BR6 (wherein R4 = H, halo, alkyl, etc.; or R4, together with R5, = O; R5 = H, alkyl,; A = a bond, alkylene, etc.; B = a bond, alkylene, etc.; R6 = (un)substituted aryl, 5-12 membered heterocyclyl contg. one or more heteroatoms selected from O, N and/or S); R2 = CN, (un)substituted 5-12 membered heterocyclyl contg. one or more heteroatoms selected from O, N and/or S, etc.; R3a, R3b = H, alkyl, etc.; or R3a and R3b together = alkylene, O(alkylene)O, etc.; R41-R46 = H, alkyl] which are useful in the prophylaxis and in the treatment of arrhythmias, in particular atrial and ventricular arrhythmias, were prepd. E.g., a 3-step synthesis of II was given. The exemplified compds. I showed pIC50 of at least 5.5 in glucocorticoid-treated mouse fibroblasts as a model to detect blockers of the delayed rectifier K current.

L3 ANSWER 2 OF 150 REGISTRY COPYRIGHT 2002 ACS

Searched by: Mary Hale 308-4258 CM-1 12D16

RN 313477-03-1 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[[4-cyanophenyl)amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 MF C20 H26 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS

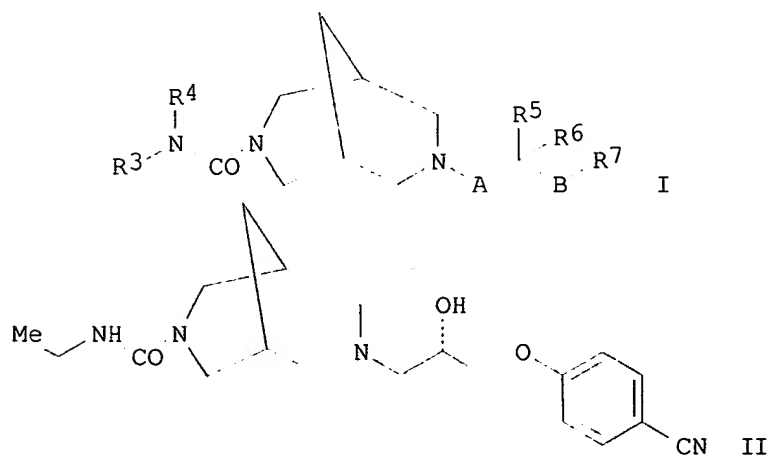


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:56700 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Alstermark, Christer; Andersson, Kjell; Bjore, Annika; Bjorsne, Magnus; Lindstedt, Alstermark Eva-Lotte; Nilsson, Goran; Polla, Magnus; Strandlund, Gert; Ortengren, Ylva (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000077000 A1 20001221, 130 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1254 20000615. PRIORITY: SE 1999-2268 19990616.

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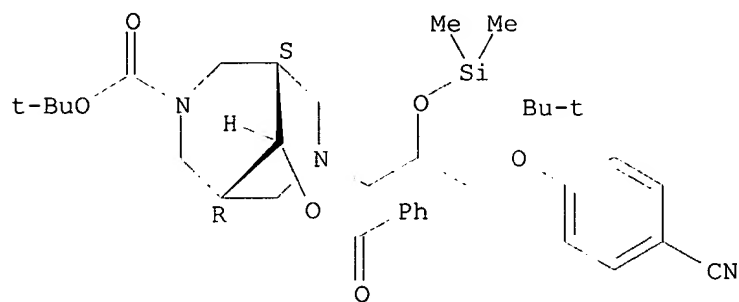
AB Bispidines, such as I [R3 = H, alkyl; R4 = H, alkyl, alkoxy; NR3R4 =

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heterocyclyl; R5 = H, halogen, alkyl, alkoxy, acyloxy, alkylsulfonyloxy, carbamoyl, etc.; R6 = H, alkyl; R5R6 = O; R7 = alkyl, aryl, heterocyclyl; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. with 51% yield by amidation of (S)-4-[3-(3,7-diazabicyclo[3.3.1]non-3-yl)-2-hydroxypropoxy]benzonitrile with Et isocyanate. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 3 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313269-46-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-(benzoyloxy)-7-[3-(4-cyanophenoxy)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]propyl]-, 1,1-dimethylethyl ester, (9-anti)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C35 H49 N3 O6 Si
 SR CA
 LC STN Files: CA, CAPLUS

Relative stereochemistry.



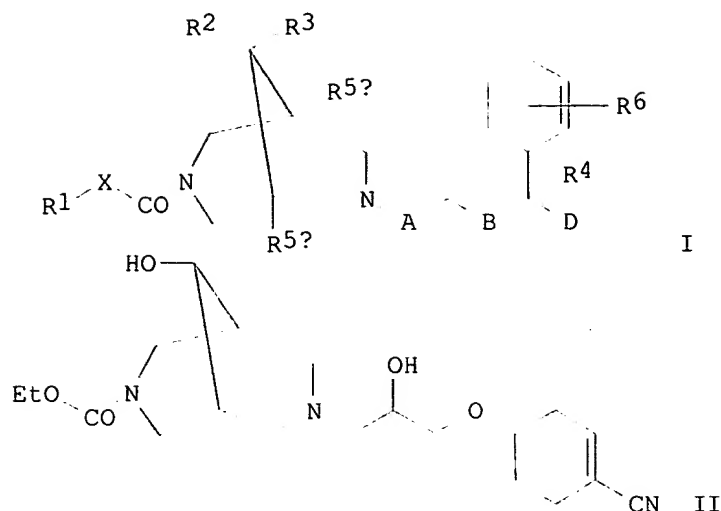
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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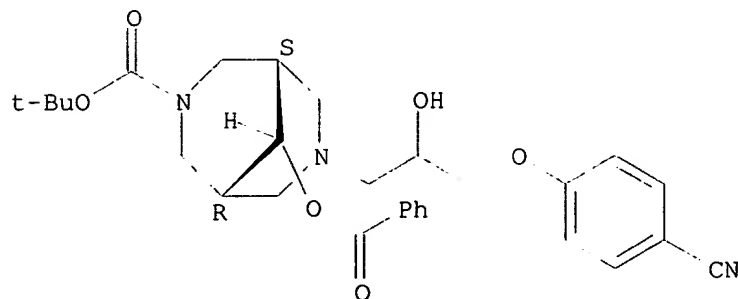
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 4 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313269-45-3 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-(benzoyloxy)-7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester, (9-anti)- (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C29 H35 N3 O6
 SR CA
 LC STN Files: CA, CAPLUS

Relative stereochemistry.



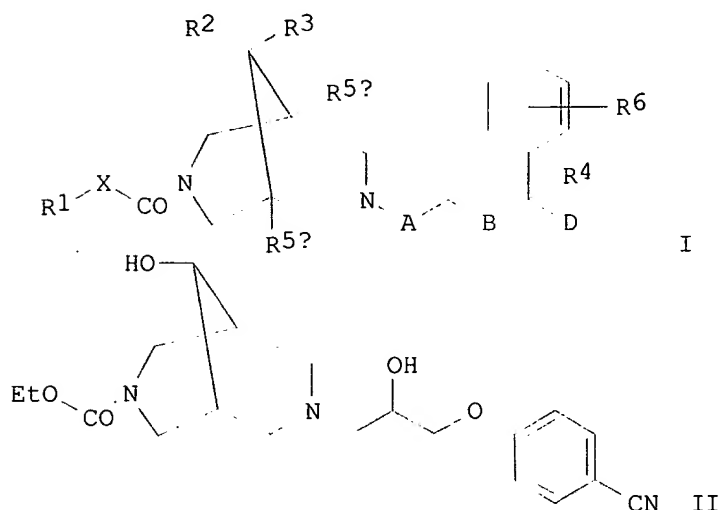
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1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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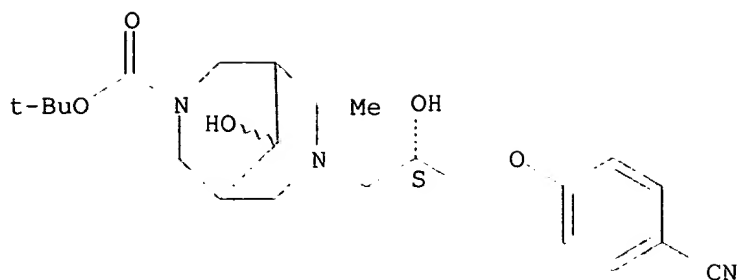


AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 5 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313269-44-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-9-hydroxy-9-methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H33 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

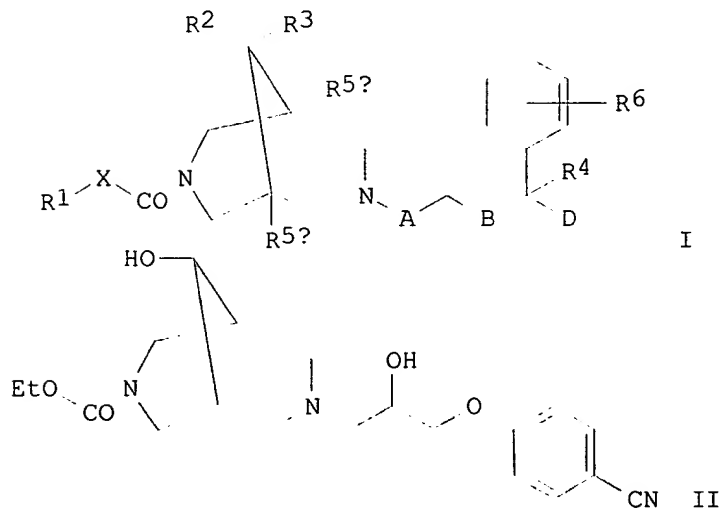


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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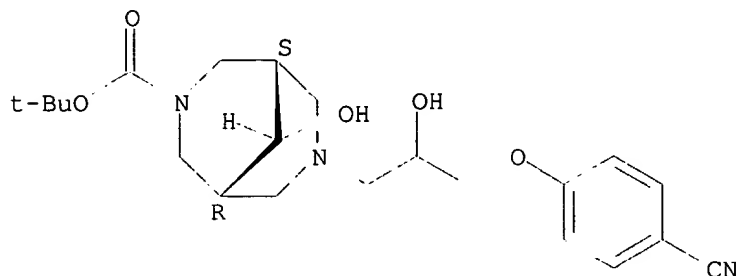
AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular

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arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 6 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 313269-43-1 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-9-hydroxy-, 1,1-dimethylethyl ester, (9-anti)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H31 N3 O5
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.



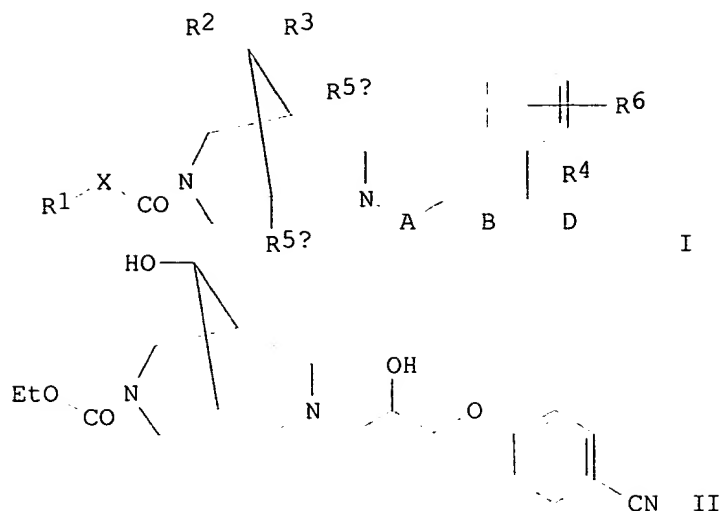
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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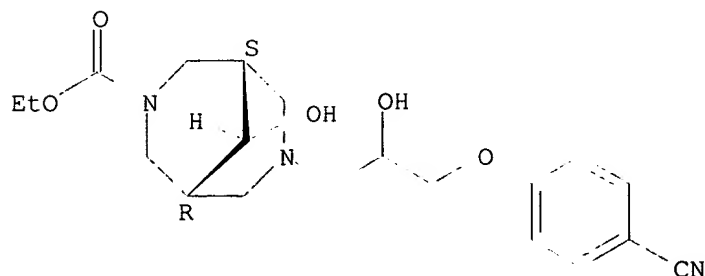
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 7 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313269-42-0 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-9-hydroxy-, ethyl ester, (9-anti)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C20 H27 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

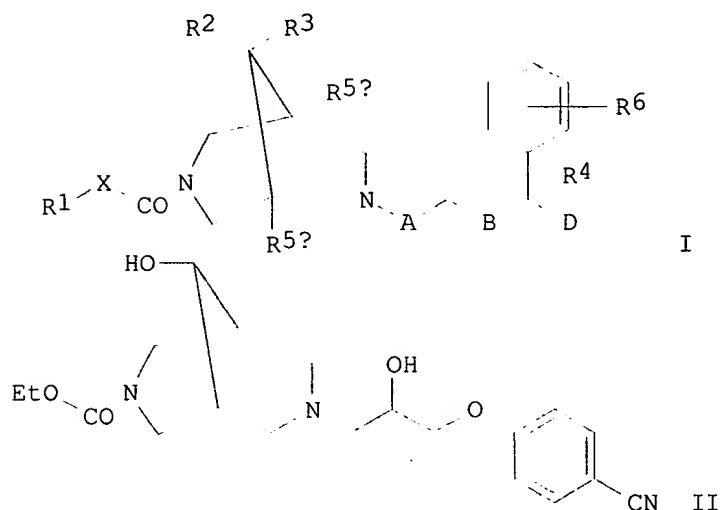
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment

Searched by: Mary Hale 308-4258 CM-1 12D16

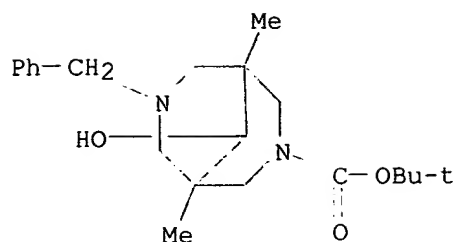
of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 8 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-81-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-hydroxy-1,5-dimethyl-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H32 N2 O3
 SR CA
 LC STN Files: CA, CAPLUS

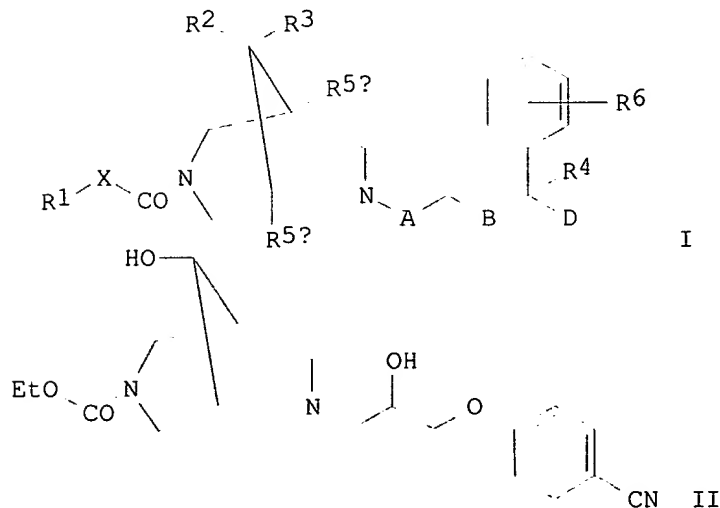


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI

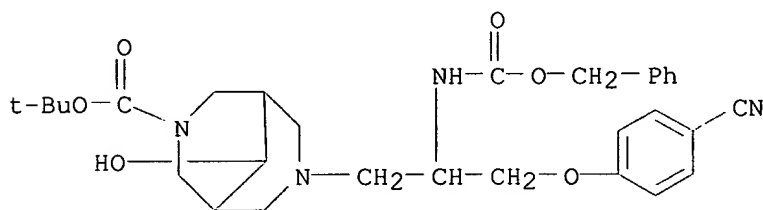


AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular

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arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 9 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-77-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-[[(phenylmethoxy)carbonyl]amino]propyl]-9-hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C30 H38 N4 O6
 SR CA
 LC STN Files: CA, CAPLUS

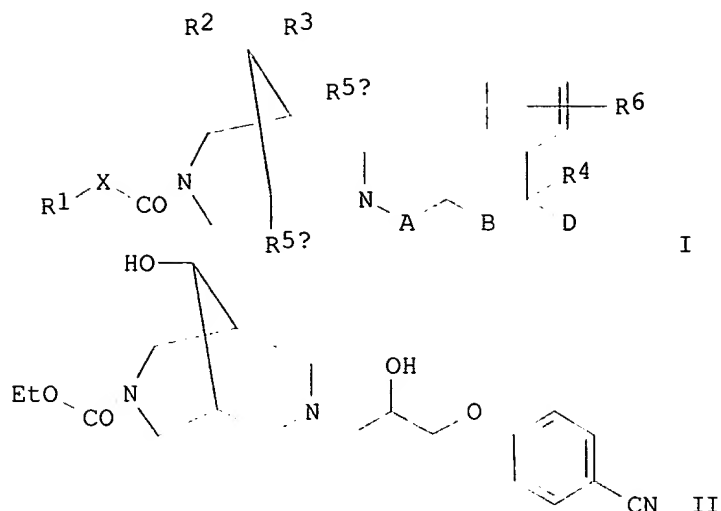


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 10 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 313238-75-4 REGISTRY

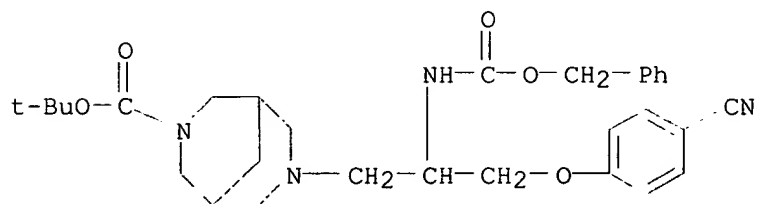
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-[[[(phenylmethoxy)carbonyl]amino]propyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)

FS 3D CONCORD

MF C30 H38 N4 O5

SR CA

LC STN Files: CA, CAPLUS



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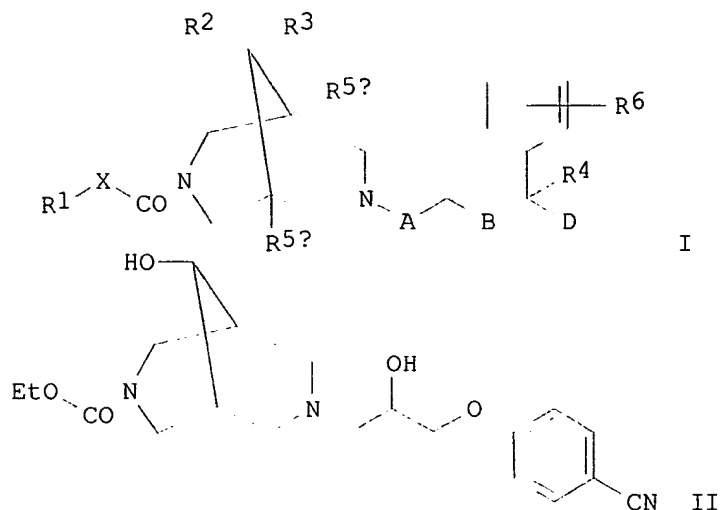
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp.

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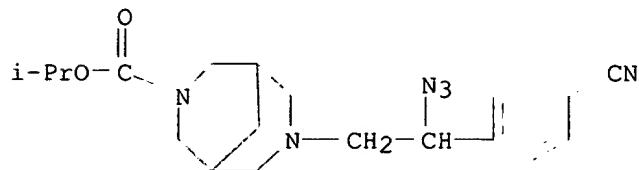
DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 11 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-65-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-azido-2-(4-cyanophenyl)ethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
 MF C20 H26 N6 O2
 SR CA
 LC STN Files: CA, CAPLUS

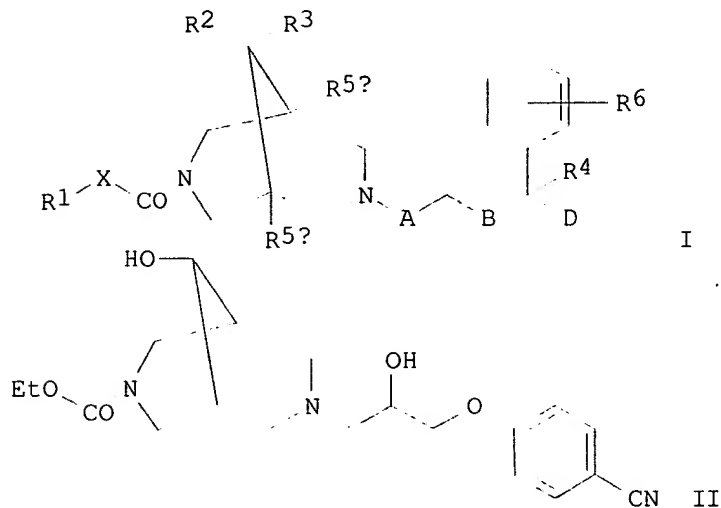


Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

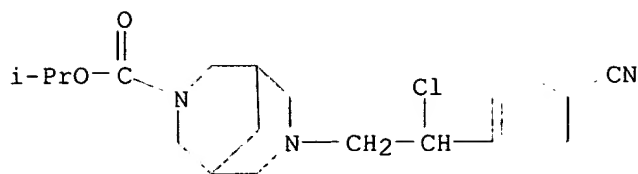
GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 12 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 313238-63-0 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-chloro-2-(4-cyanophenyl)ethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H26 Cl N3 O2
SR CA
LC STN Files: CA, CAPLUS

Searched by: Mary Hale 308-4258 CM-1 12D16



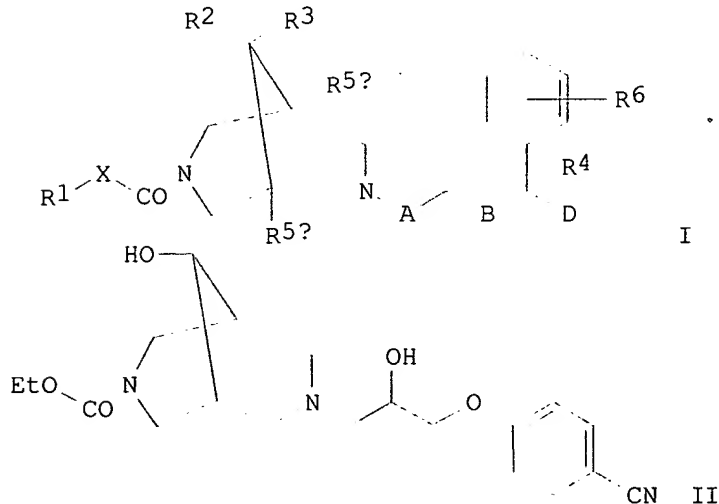
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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

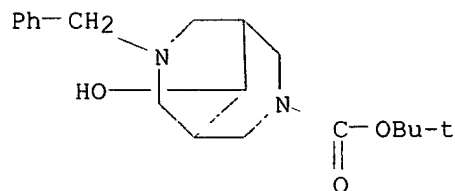
GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

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L3 ANSWER 13 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-51-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-hydroxy-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H28 N2 O3
 SR CA
 LC STN Files: CA, CAPLUS

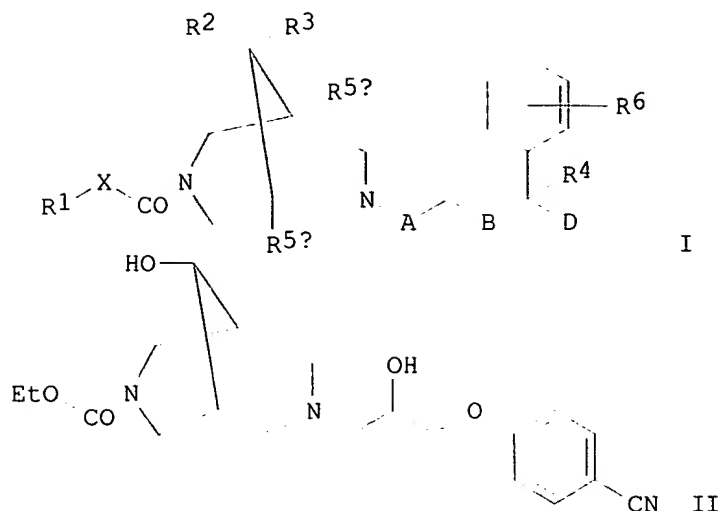


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1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 14 OF 150 REGISTRY COPYRIGHT 2002 ACS

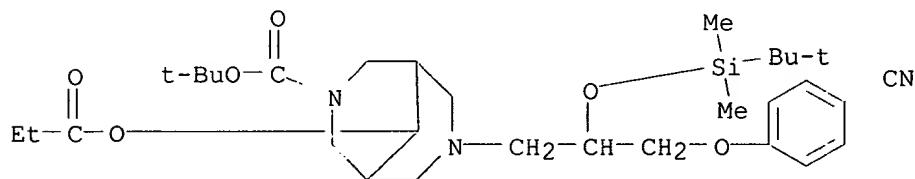
RN 313238-48-1 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]propyl]-9-(1-oxopropoxy)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

MF C31 H49 N3 O6 Si

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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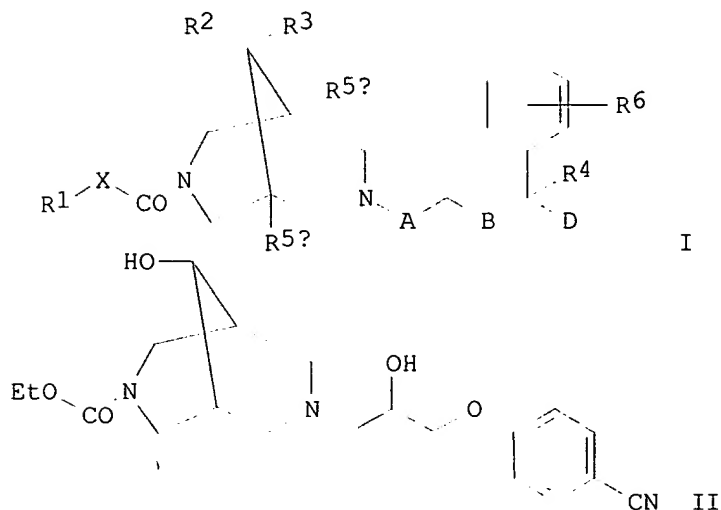
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA,

Searched by: Mary Hale 308-4258 CM-1 12D16

CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

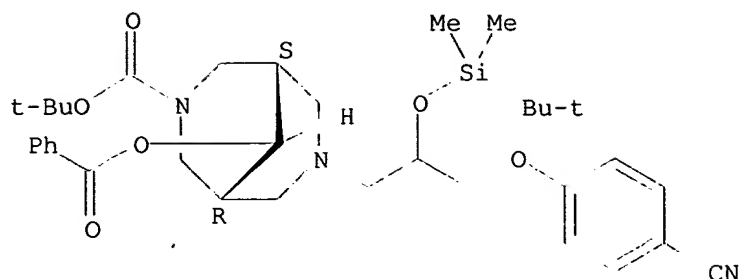
GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 15 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-46-9 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-(benzoyloxy)-7-[3-(4-cyanophenoxy)-2-[(1,1-dimethylethyl)dimethylsilyl]oxy]propyl]-, 1,1-dimethylethyl ester, (9-syn)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C35 H49 N3 O6 Si
 SR CA
 LC STN Files: CA, CAPLUS

Relative stereochemistry.



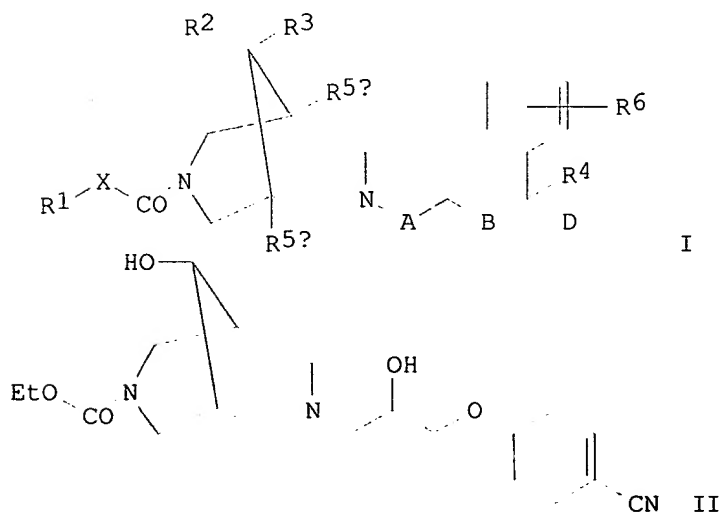
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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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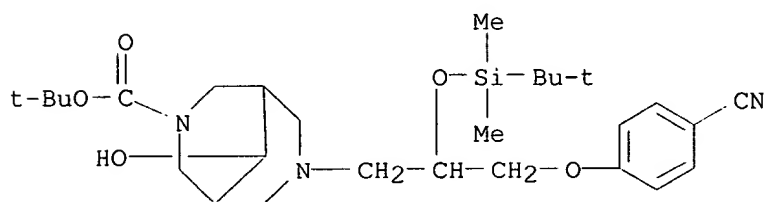


AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prep'd. for pharmaceutical use in the

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treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 16 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-44-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-
 [[(1,1-dimethylethyl)dimethylsilyl]oxy]propyl]-9-hydroxy-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 MF C28 H45 N3 O5 Si
 SR CA
 LC STN Files: CA, CAPLUS

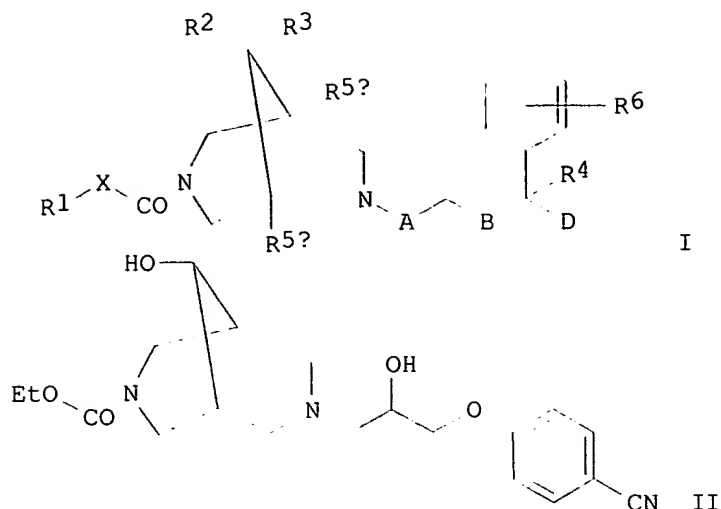


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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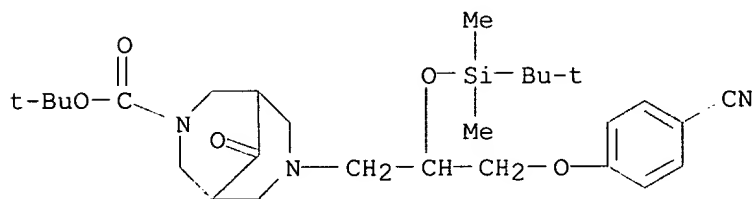
REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 17 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-42-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]propyl]-9-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 MF C28 H43 N3 O5 Si
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

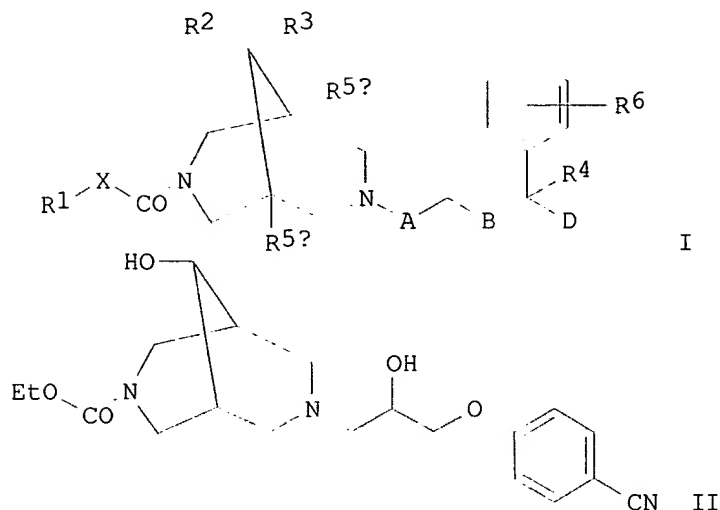
1 REFERENCES IN FILE CA (1967 TO DATE)
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REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA,

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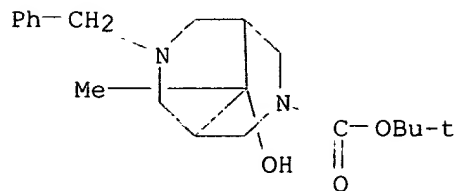
CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 18 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-37-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-hydroxy-9-methyl-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H30 N2 O3
 SR CA
 LC STN Files: CA, CAPLUS



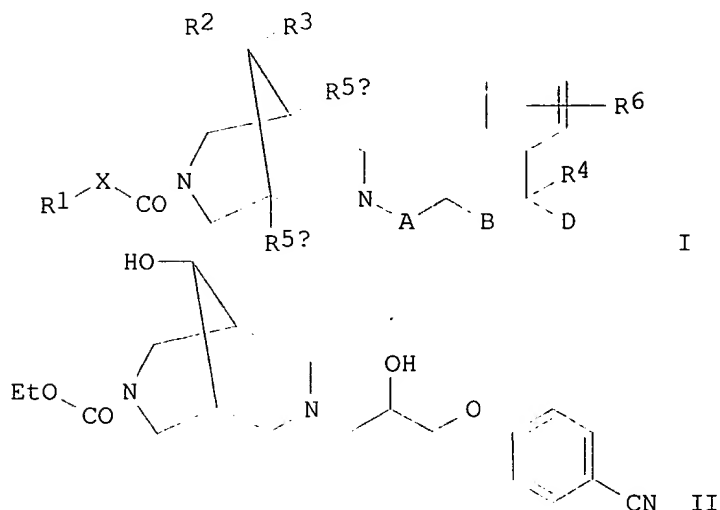
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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 19 OF 150 REGISTRY COPYRIGHT 2002 ACS

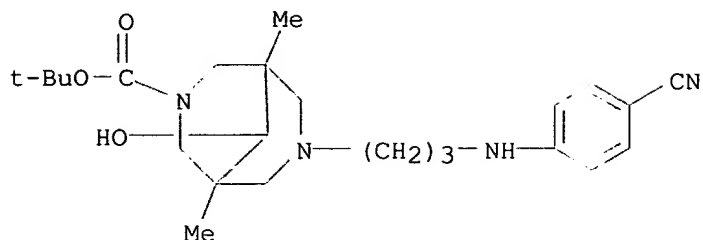
RN 313238-30-1 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[(4-cyanophenyl)amino]propyl]-9-hydroxy-1,5-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

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MF C24 H36 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS

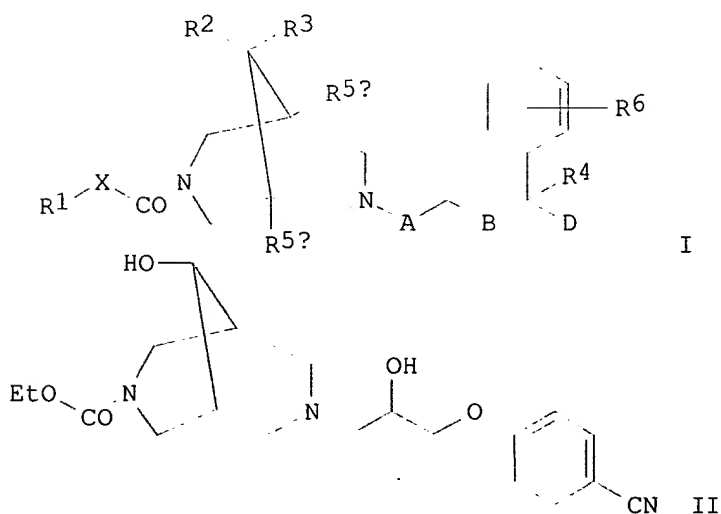


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
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REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI

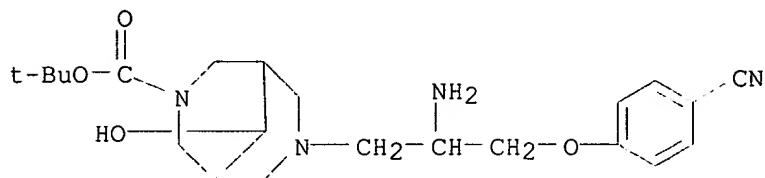


AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl,

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etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 20 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-28-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-amino-3-(4-cyanophenoxy)propyl]-9-hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H32 N4 O4
 SR CA
 LC STN Files: CA, CAPLUS

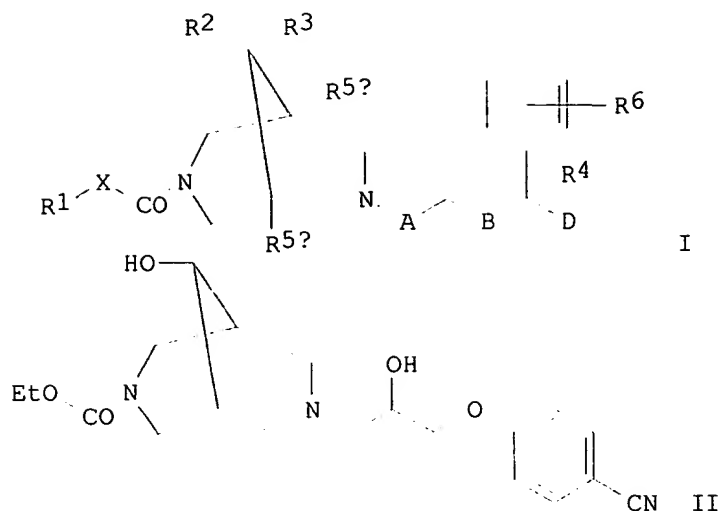


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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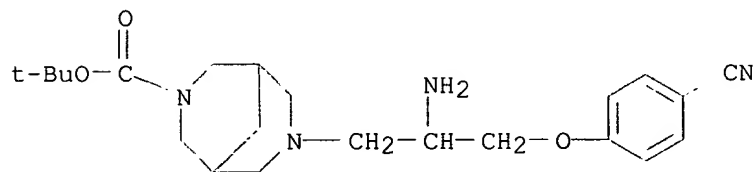
REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 21 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-26-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-amino-3-(4-cyanophenoxy)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H32 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

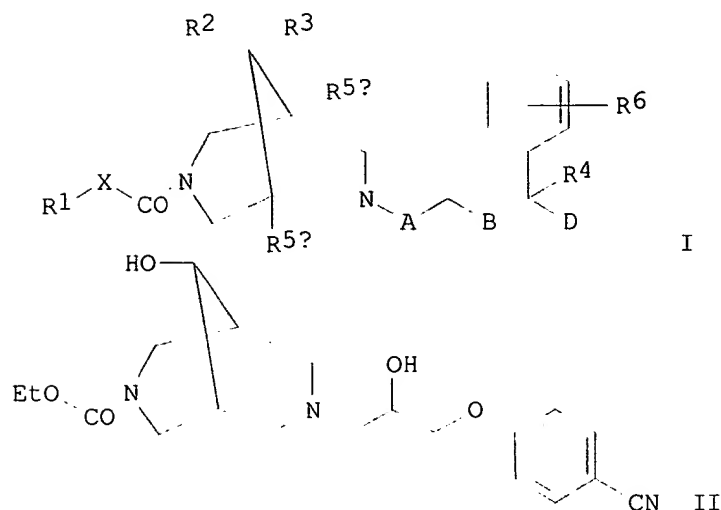
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,

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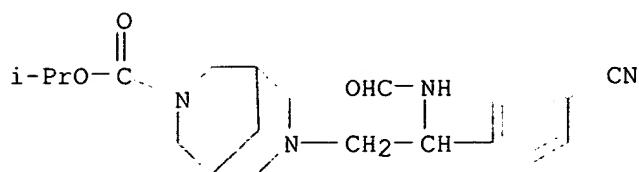
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 22 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-25-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-(4-cyanophenyl)-2-(formylamino)ethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H28 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS



Searched by: Mary Hale 308-4258 CM-1 12D16

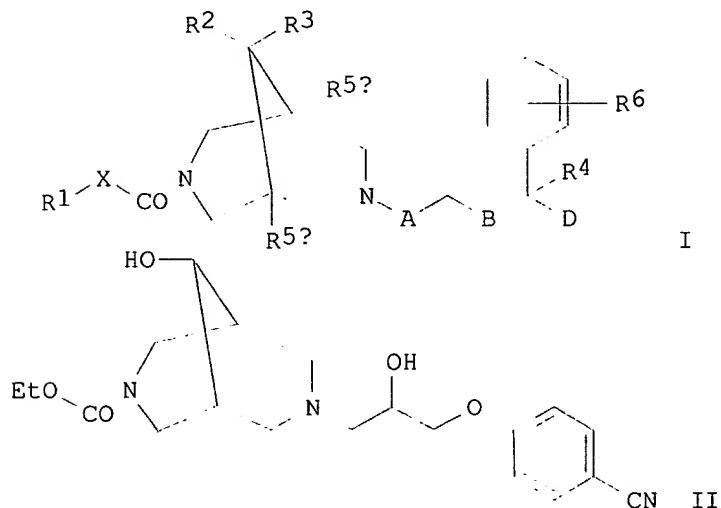
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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 23 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 313238-23-2 REGISTRY

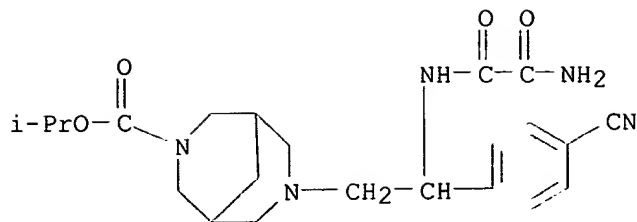
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-[(aminooxoacetyl)amino]-2-(4-cyanophenyl)ethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

MF C22 H29 N5 O4

SR CA

LC STN Files: CA, CAPLUS

Searched by: Mary Hale 308-4258 CM-1 12D16

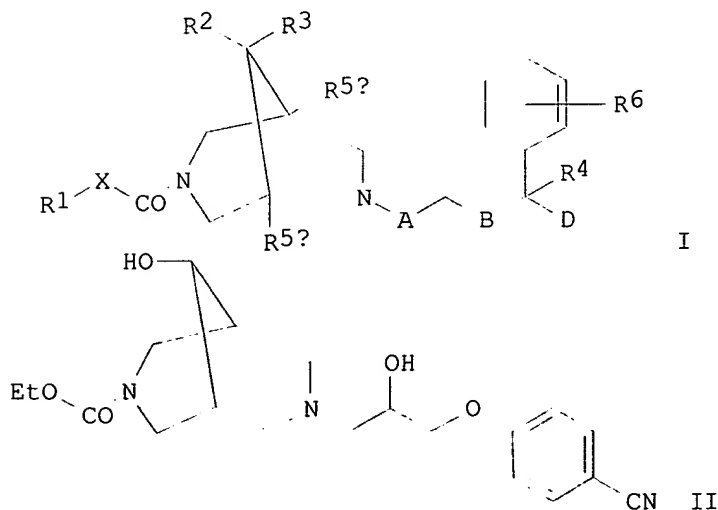


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1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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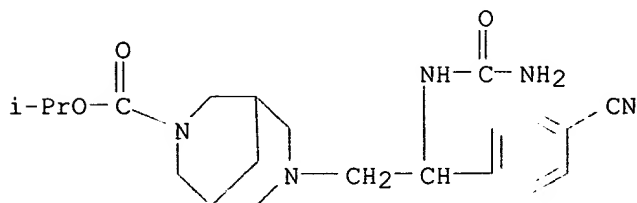


AB Bispidines, such as I. [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular

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arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 24 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-21-0 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-
 [(aminocarbonyl)amino]-2-(4-cyanophenyl)ethyl]-, 1-methylethyl ester (9CI)
 (CA INDEX NAME)
 MF C21 H29 N5 O3
 SR CA
 LC STN Files: CA, CAPLUS

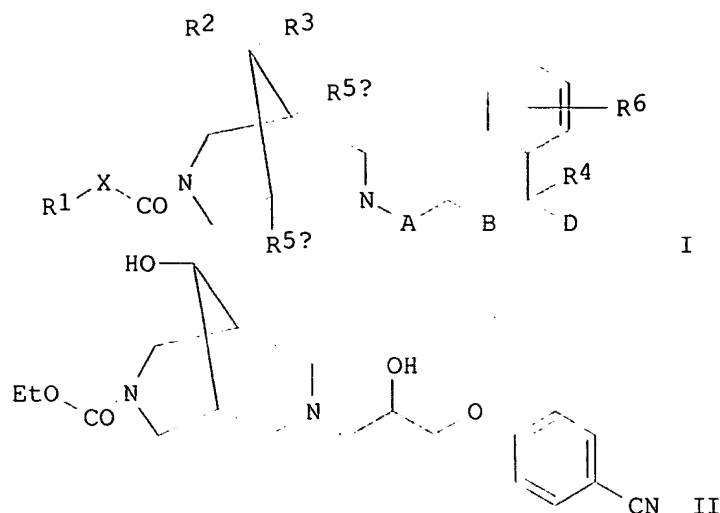


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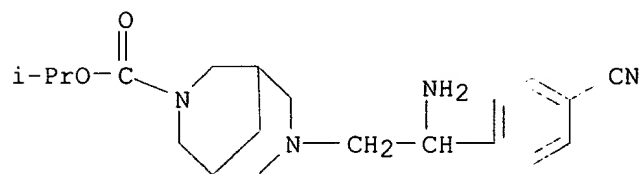
REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp.
 DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 25 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-19-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-amino-2-(4-cyanophenyl)ethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H28 N4 O2
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

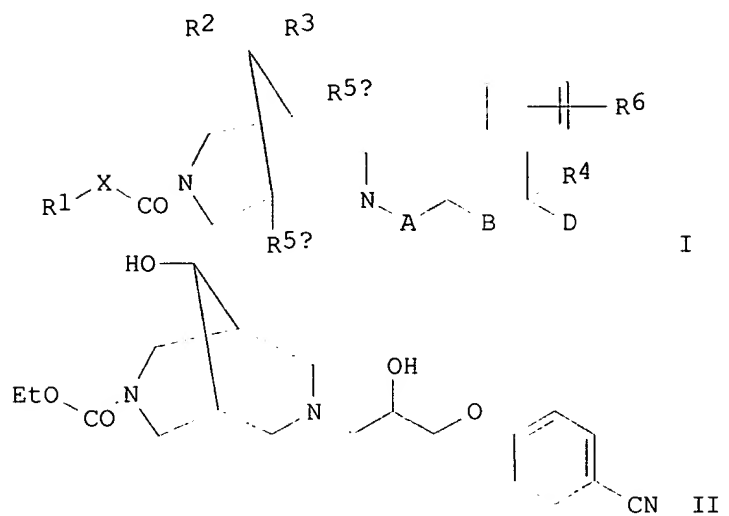
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,

Searched by: Mary Hale 308-4258 CM-1 12D16

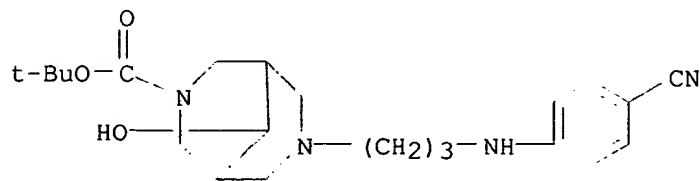
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GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 26 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-17-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[(4-cyanophenyl)amino]propyl]-9-hydroxy-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H32 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS



Searched by: Mary Hale 308-4258 CM-1 12D16

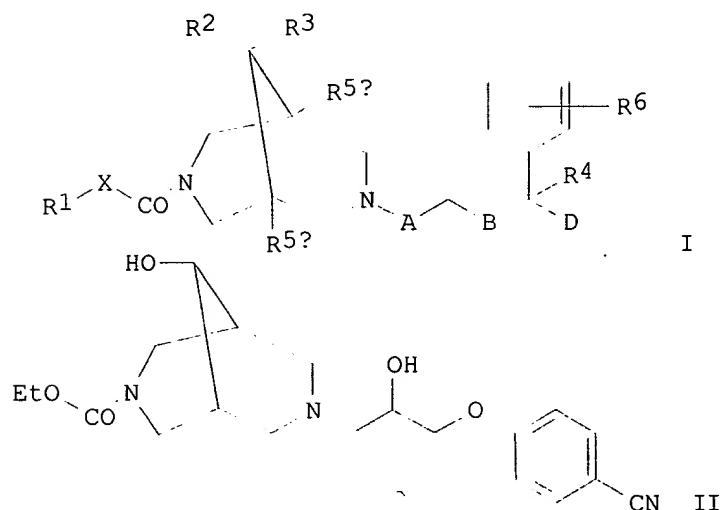
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 27 OF 150 REGISTRY COPYRIGHT 2002 ACS

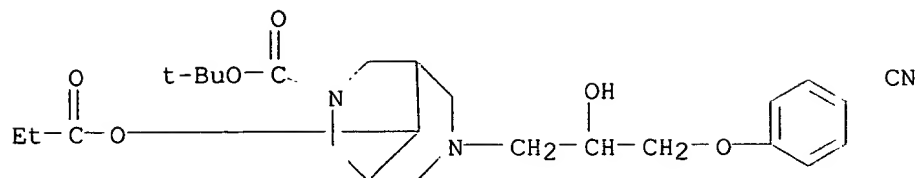
RN 313238-15-2 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-9-(1-oxopropoxy)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

Searched by: Mary Hale 308-4258 CM-1 12D16

MF C25 H35 N3 O6
 SR CA
 LC STN Files: CA, CAPLUS

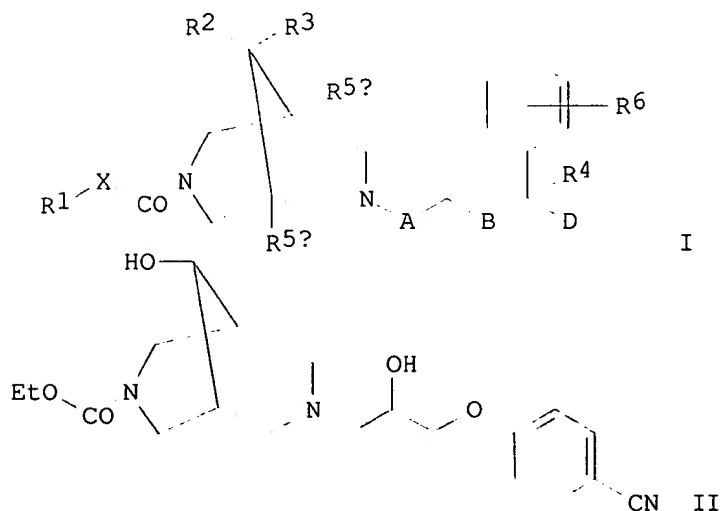


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp.
 DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



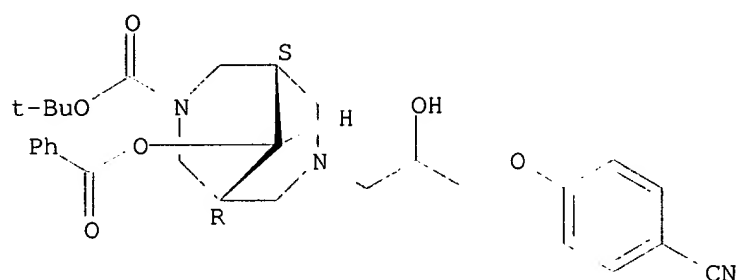
AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H,

Searched by: Mary Hale 308-4258 CM-1 12D16

OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 28 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-13-0 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-(benzoyloxy)-7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester, (9-syn)- (9CI)
 (CA INDEX NAME)
 FS STEREOSEARCH
 MF C29 H35 N3 O6
 SR CA
 LC STN Files: CA, CAPLUS

Relative stereochemistry.

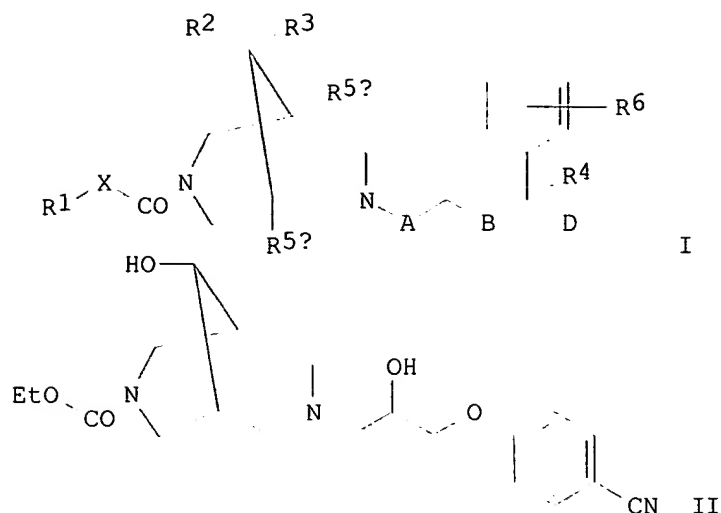


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

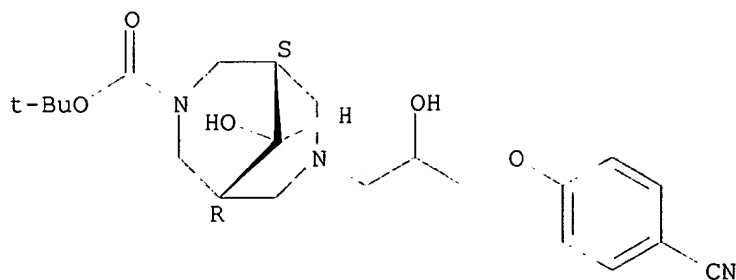
GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 29 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313238-09-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-9-hydroxy-, 1,1-dimethylethyl ester, (9-syn)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C22 H31 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS

Relative stereochemistry.

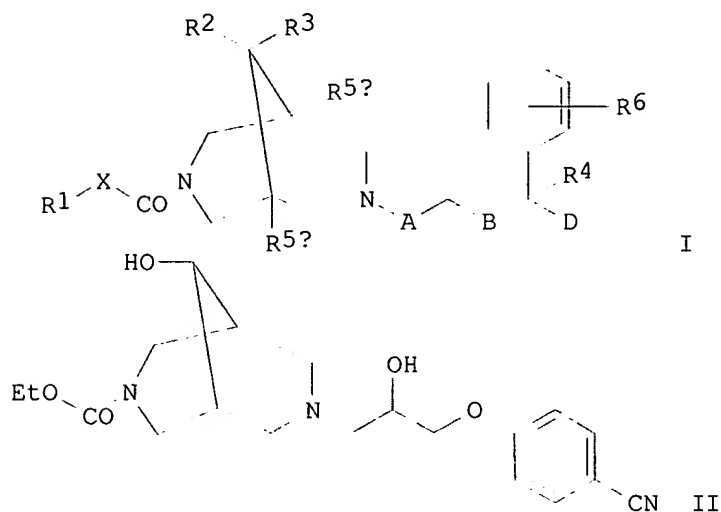


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
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Searched by: Mary Hale 308-4258 CM-1 12D16

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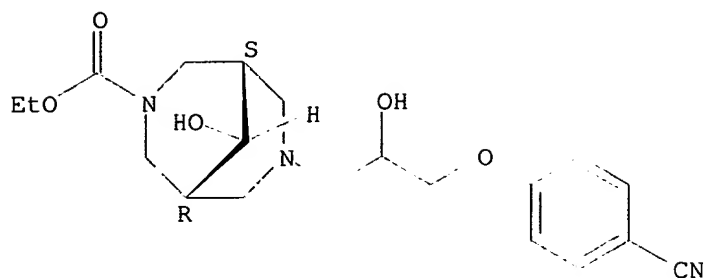


AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

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L3 ANSWER 30 OF 150  REGISTRY  COPYRIGHT 2002 ACS
RN 313238-07-2  REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-
hydroxypropyl]-9-hydroxy-, ethyl ester, (9-syn)- (9CI)  (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N3 O5
SR CA
LC STN Files:  CA, CAPLUS
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Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

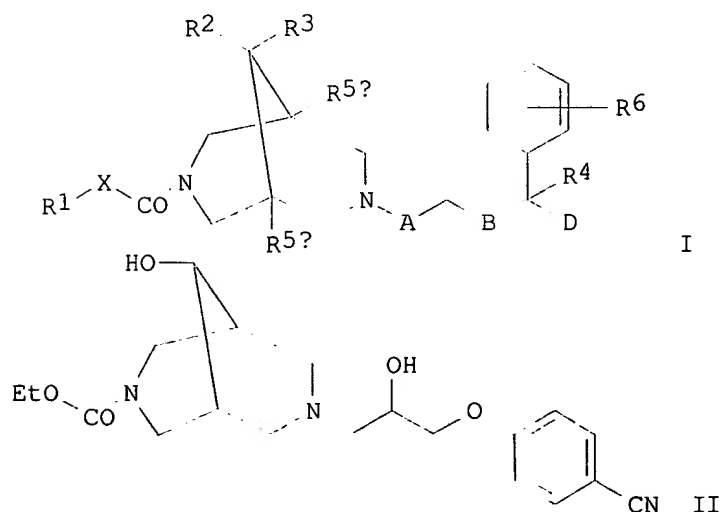


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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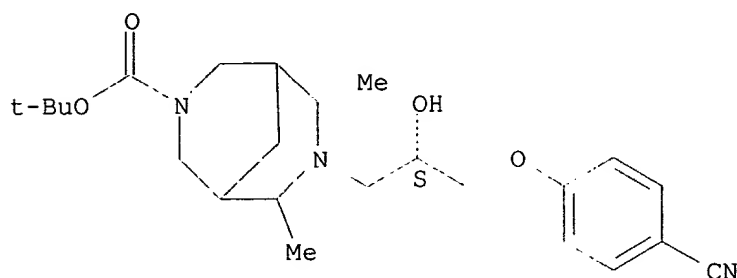
AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the

Searched by: Mary Hale 308-4258 CM-1 12D16

treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 31 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 313056-94-9 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-6,8-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C24 H35 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

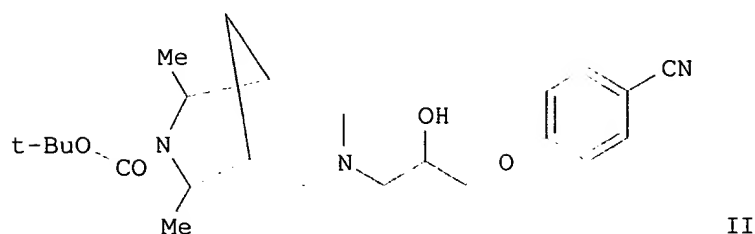
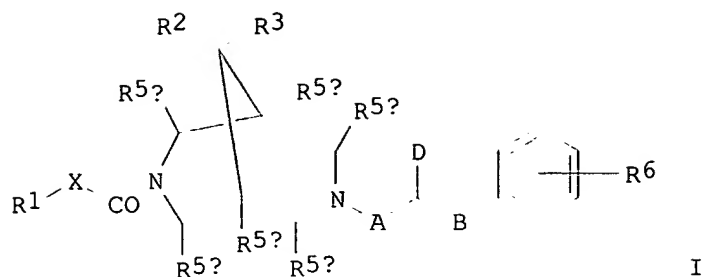


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
 APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 32 OF 150 REGISTRY COPYRIGHT 2002 ACS

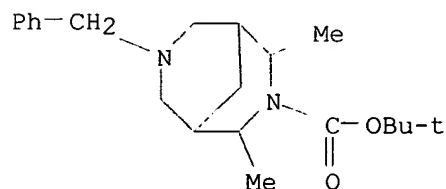
RN 312961-93-6 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 2,4-dimethyl-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

MF C21 H32 N2 O2

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

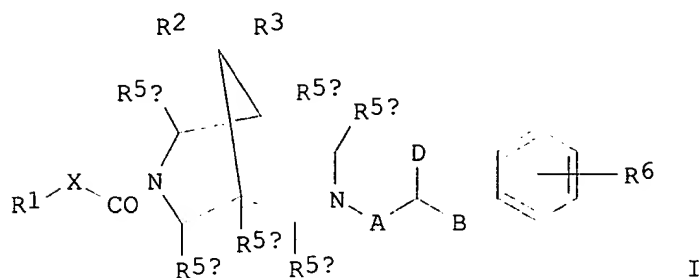
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE,

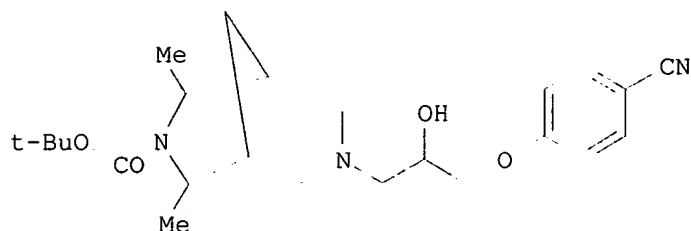
Searched by: Mary Hale 308-4258 CM-1 12D16

ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

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I



II

AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 33 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 312961-92-5 REGISTRY

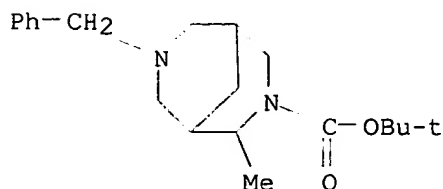
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 2-methyl-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H30 N2 O2

SR CA

LC STN Files: CA, CAPLUS



Searched by: Mary Hale 308-4258 CM-1 12D16

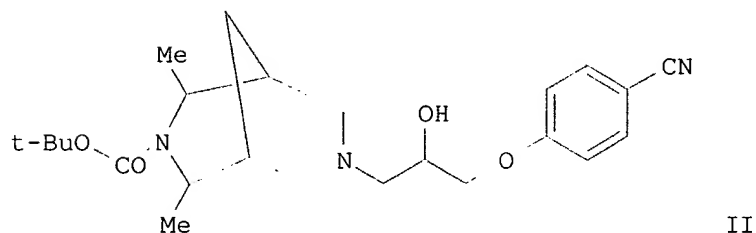
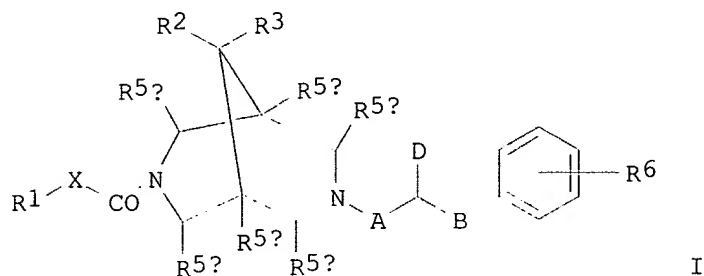
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 34 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 312961-91-4 REGISTRY

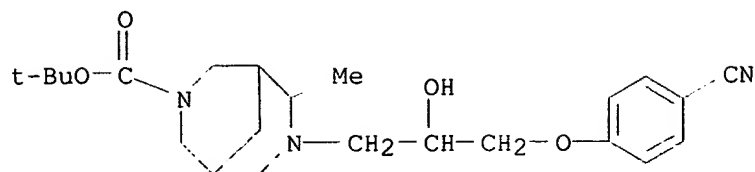
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-6-methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C23 H33 N3 O4

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS

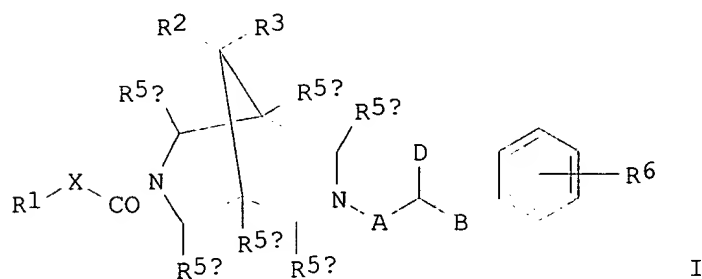


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

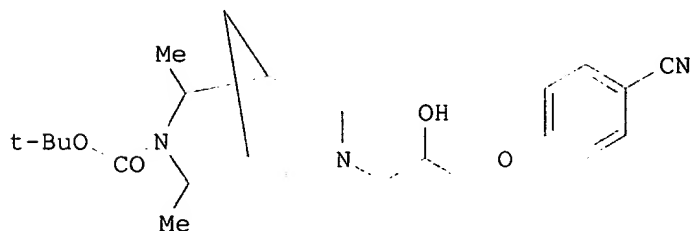
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

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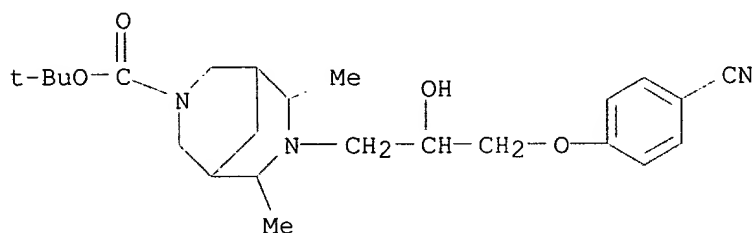
II

AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and

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ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 35 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 312961-90-3 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-6,8-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H35 N3 O4
SR CA
LC STN Files: CA, CAPLUS

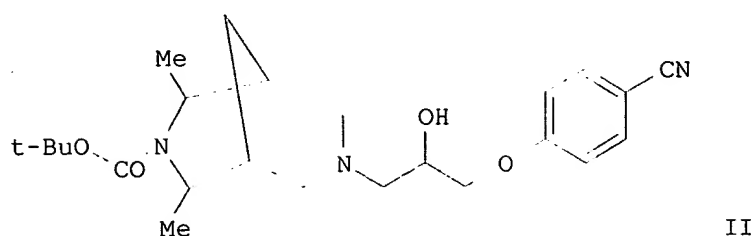
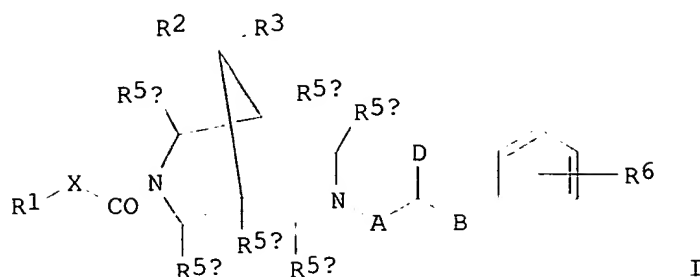


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 36 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 312961-89-0 REGISTRY

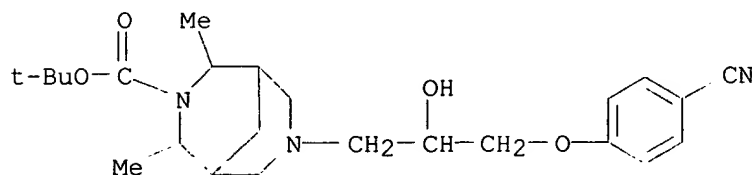
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-2,4-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

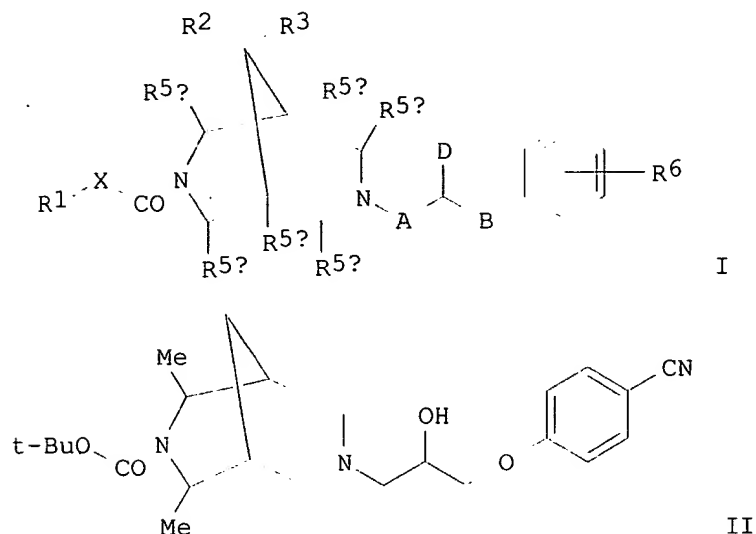
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT,

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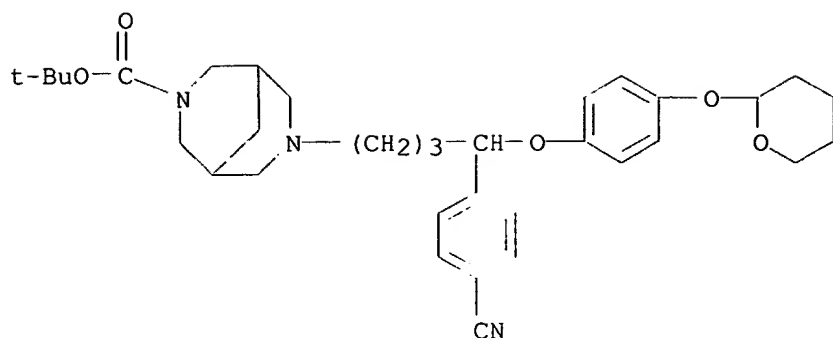
AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 37 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 312955-35-4 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-[4-[(tetrahydro-2H-pyran-2-yl)oxy]phenoxy]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
MF C34 H45 N3 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT



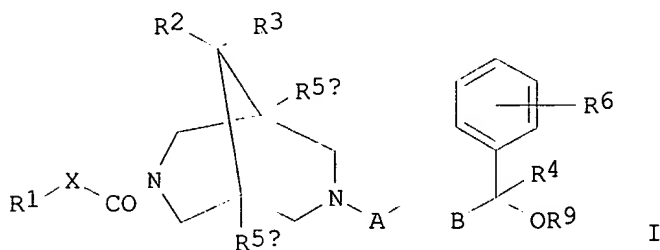
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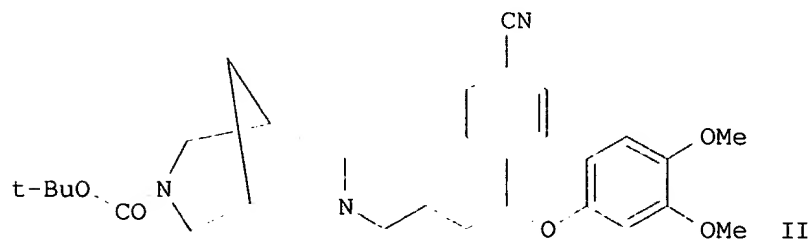
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42149 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

GI



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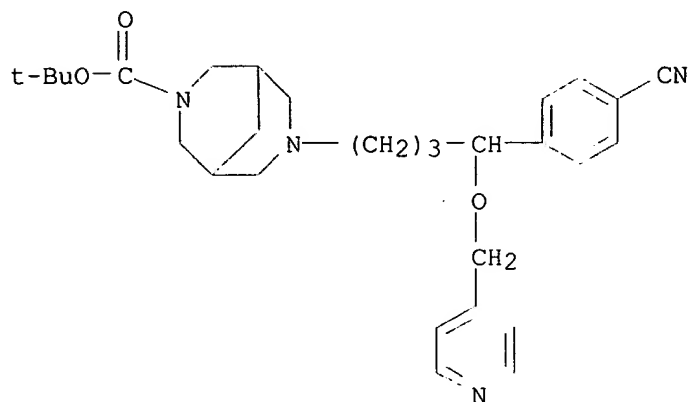
II

AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were

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prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 38 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 312955-30-9 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-(4-pyridinylmethoxy)butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 MF C29 H38 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

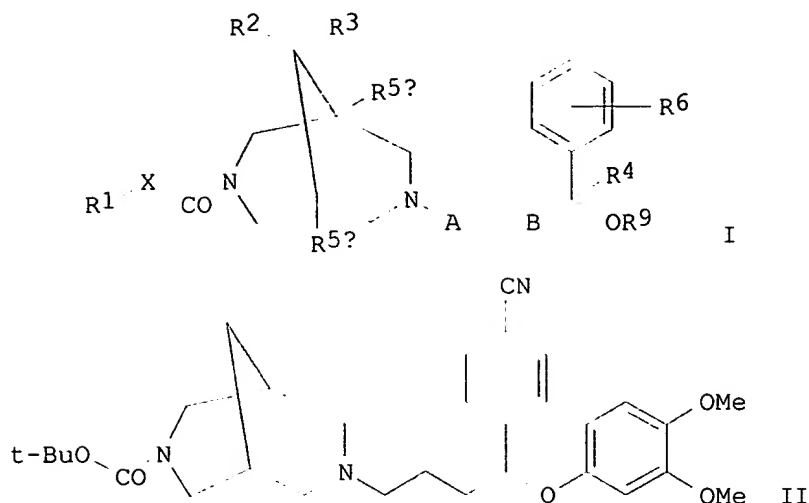


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

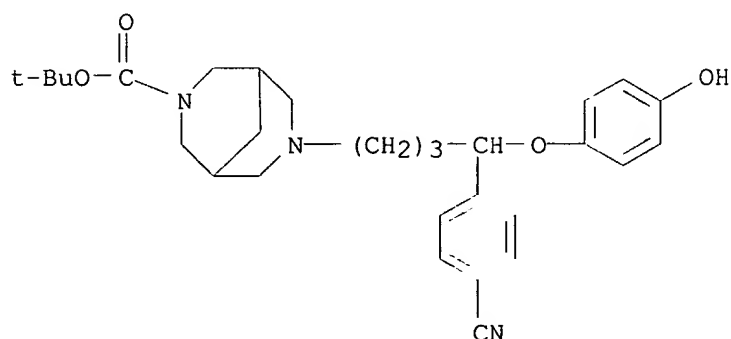
REFERENCE 1: 134:42149 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 39 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 312955-29-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-(4-hydroxyphenoxy)butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 MF C29 H37 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

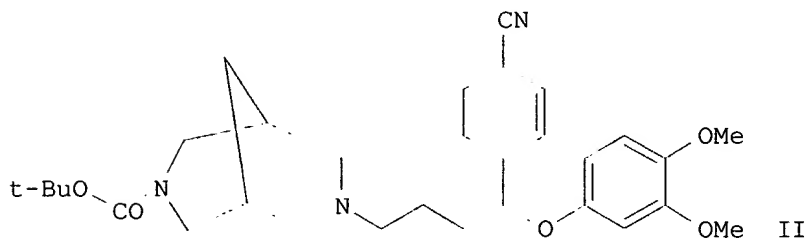
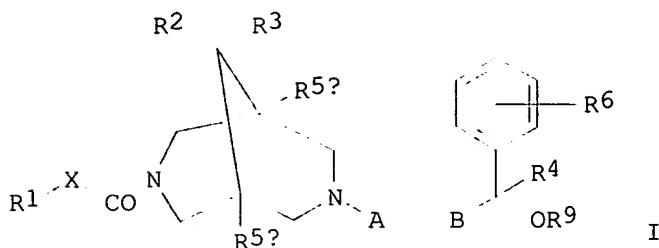
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42149 Preparation of new bispidines useful in the treatment

Searched by: Mary Hale 308-4258 CM-1 12D16

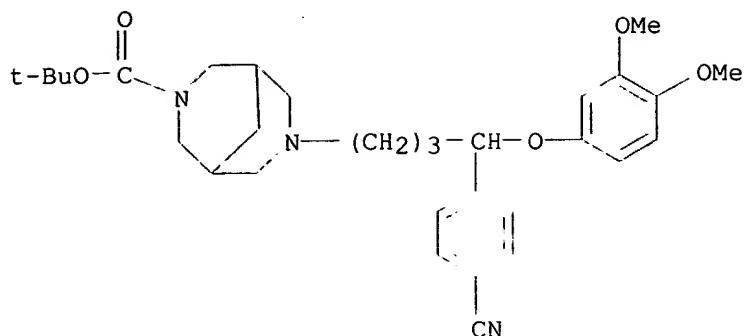
of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 40 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 312955-28-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-(3,4-dimethoxyphenoxy)butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 MF C31 H41 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT



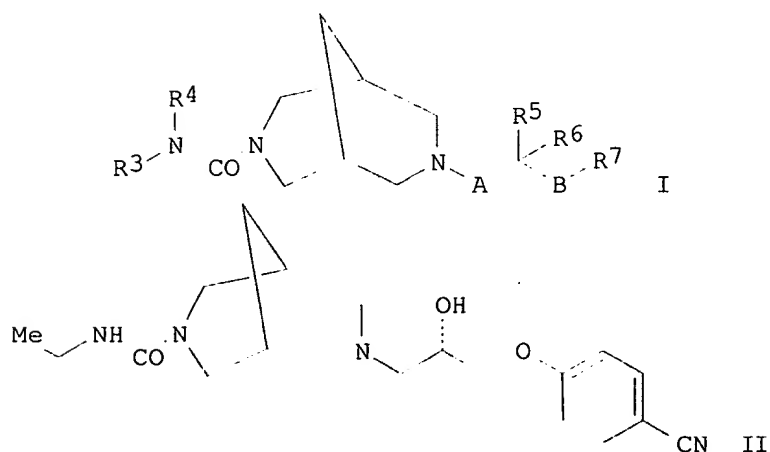
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2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:56700 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Alstermark, Christer; Andersson, Kjell; Bjore, Annika; Bjorsne, Magnus; Lindstedt, Alstermark Eva-Lotte; Nilsson, Goran; Polla, Magnus; Strandlund, Gert; Ortengren, Ylva (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000077000 A1 20001221, 130 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1254 20000615. PRIORITY: SE 1999-2268 19990616.

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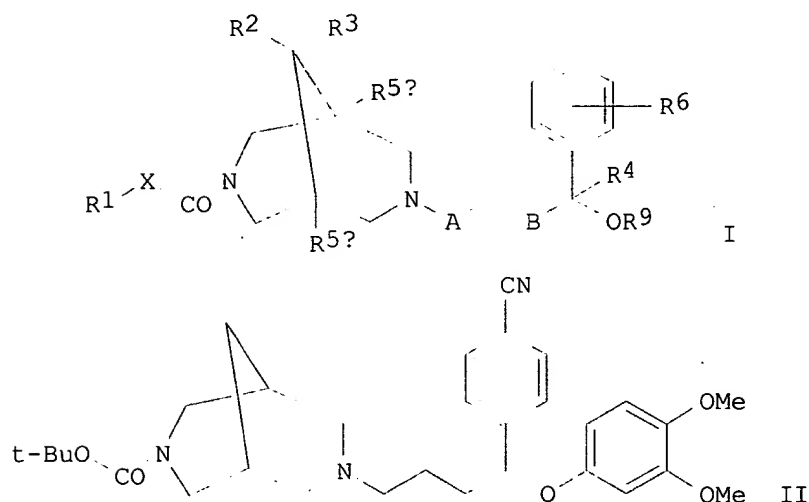
AB Bispidines, such as I [R3 = H, alkyl; R4 = H, alkyl, alkoxy; NR3R4 = heterocyclyl; R5 = H, halogen, alkyl, alkoxy, acyloxy, alkylsulfonyloxy, carbamoyl, etc.; R6 = H, alkyl; R5R6 = O; R7 = alkyl, aryl, heterocyclyl;

Searched by: Mary Hale 308-4258 CM-1 12D16

A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. with 51% yield by amidation of (S)-4-[3-(3,7-diazabicyclo[3.3.1]non-3-yl)-2-hydroxypropoxy]benzonitrile with Et isocyanate. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 2: 134:42149 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

L3 ANSWER 41 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 263892-43-9 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2R)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (salt) (9CI) (CA INDEX NAME)

FS STEREOSEARCH

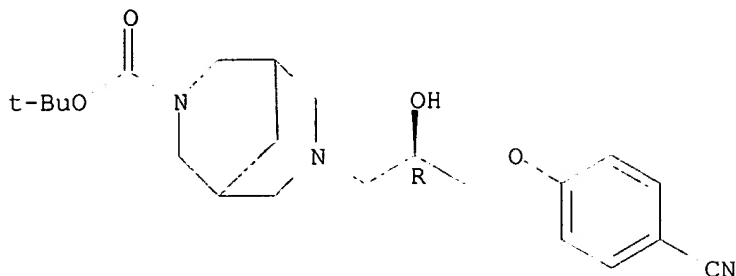
Searched by: Mary Hale 308-4258 CM-1 12D16

MF C22 H31 N3 O4 . C4 H6 O6
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

CM 1

CRN 227940-01-4
CMF C22 H31 N3 O4

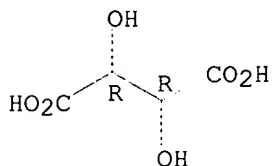
Absolute stereochemistry.



CM 2

CRN 87-69-4
CMF C4 H6 O6

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:284247 A dried or frozen pharmaceutical preparation containing a class III antiarrhythmic compound. Bjore, Annika; Granath, Anna-Karin (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000021533 A1 20000420, 31 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-SE1828 19991011. PRIORITY: SE 1998-3517 19981015.

AB The present invention relates to dried prepns. contg. a class III antiarrhythmic compd. in the form of cryst. or amorphous salt or any combination thereof, where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. The present invention also relates to frozen prepns. contg. a class III antiarrhythmic compd. in the form of salt soln., where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. Preferred prepns. contain a salt of the compd. 3,7-diazabicyclo[3.3.1]-nonane-3-

Searched by: Mary Hale 308-4258 CM-1 12D16

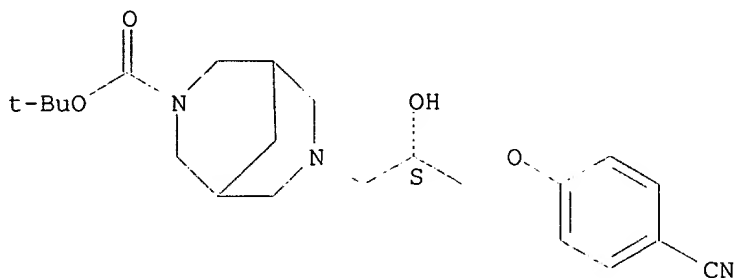
carboxylic acid 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-1,1-dimethylethyl ester (Compd. A). Further aspects of the present invention include salts of Compd. A per se, processes for prepg. the prepn., as well as use of the preps. for prophylaxis and/or treatment of cardiac arrhythmia.

L3 ANSWER 42 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 263892-42-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (salt) (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C22 H31 N3 O4 . C4 H6 O6
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT

CM 1

CRN 227940-00-3
 CMF C22 H31 N3 O4

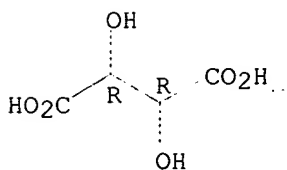
Absolute stereochemistry.



CM 2

CRN 87-69-4
 CMF C4 H6 O6

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:284247 A dried or frozen pharmaceutical preparation containing a class III antiarrhythmic compound. Bjore, Annika; Granath, Anna-Karin (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000021533 A1 20000420, 31 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,

Searched by: Mary Hale 308-4258 CM-1 12D16

AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-SE1828 19991011. PRIORITY: SE 1998-3517 19981015.

AB The present invention relates to dried preps. contg. a class III antiarrhythmic compd. in the form of cryst. or amorphous salt or any combination thereof, where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. The present invention also relates to frozen preps. contg. a class III antiarrhythmic compd. in the form of salt soln., where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. Preferred preps. contain a salt of the compd. 3,7-diazabicyclo[3.3.1]-nonane-3-carboxylic acid 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-1,1-dimethylethyl ester (Compd. A). Further aspects of the present invention include salts of Compd. A per se, processes for prepg. the prepn., as well as use of the preps. for prophylaxis and/or treatment of cardiac arrhythmia.

L3 ANSWER 43 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 252671-45-7 REGISTRY

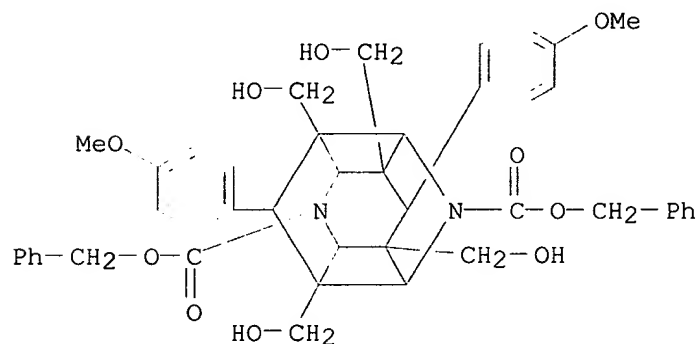
CN 3,9-Diazapentacyclo[6.4.0.02,7.04,11.05,10]dodecane-3,9-dicarboxylic acid, 1,5,7,11-tetrakis(hydroxymethyl)-6,12-bis(4-methoxyphenyl)-, bis(phenylmethyl) ester, stereoisomer (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C44 H46 N2 O10

SR CA

LC STN Files: CA, CAPLUS

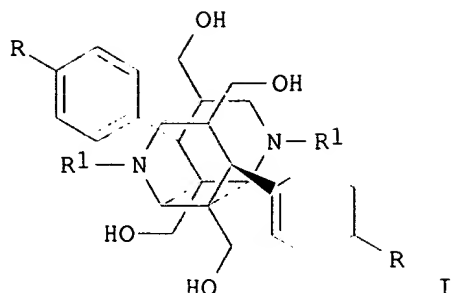


1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

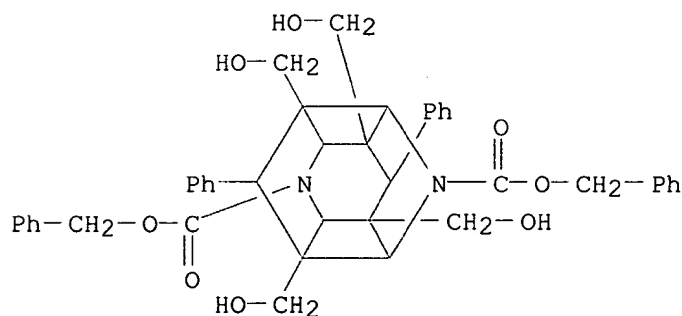
REFERENCE 1: 132:35586 Synthesis and Biological Evaluation of the First N-Alkyl Cage Dimeric 4-Aryl-1,4-dihydropyridines as Novel Nonpeptidic HIV-1 Protease Inhibitors. Hilgeroth, Andreas; Wiese, Michael; Billich, Andreas (Department of Pharmacy, Martin-Luther-University Halle-Wittenberg, Halle, D-06120, Germany). J. Med. Chem., 42(22), 4729-4732 (English) 1999. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

GI



AB A series of novel substituted aryldihydropyridine cage dimers I (R = H, MeO; R1 = H, Me, PhCH2) has been prepd. and evaluated for HIV-1 protease inhibition in in vitro assays. While the NH and N-Me derivs. of I were almost inactive with IC50 values of about 200 .mu.M, the N-benzyl substituted I (R = H, MeO; R1 = PhCH2) exhibited stronger activity, with the most active compd. I (R = H; R1 = PhCH2) having an IC50 value of 16.2 .mu.M against HIV-1 protease. I are competitive inhibitors of HIV-1 protease. With the increase of obsd. activity from NH and N-Me derivs. to N-benzyl compds., resp., the binding mode may correspond to that of cyclic and azacyclic ureas showing hydrophobic interactions of the four arom. residues to the S1/S1' and S2/S2' regions of HIV-1 protease.

L3 ANSWER 44 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 252671-44-6 REGISTRY
 CN 3,9-Diazapentacyclo[6.4.0.02,7.04,11.05,10]dodecane-3,9-dicarboxylic acid, 1,5,7,11-tetrakis(hydroxymethyl)-6,12-diphenyl-, bis(phenylmethyl) ester, stereoisomer (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C42 H42 N2 O8
 SR CA
 LC STN Files: CA, CAPLUS

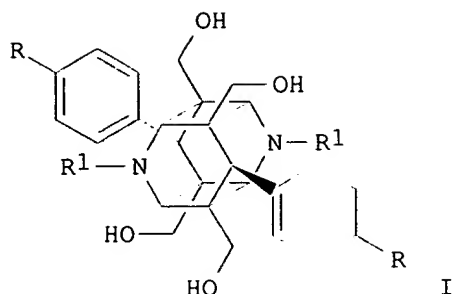


1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:35586 Synthesis and Biological Evaluation of the First N-Alkyl Cage Dimeric 4-Aryl-1,4-dihydropyridines as Novel Nonpeptidic HIV-1 Protease Inhibitors. Hilgeroth, Andreas; Wiese, Michael; Billich, Andreas (Department of Pharmacy, Martin-Luther-University Halle-Wittenberg, Halle, D-06120, Germany). J. Med. Chem., 42(22), 4729-4732 (English) 1999. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

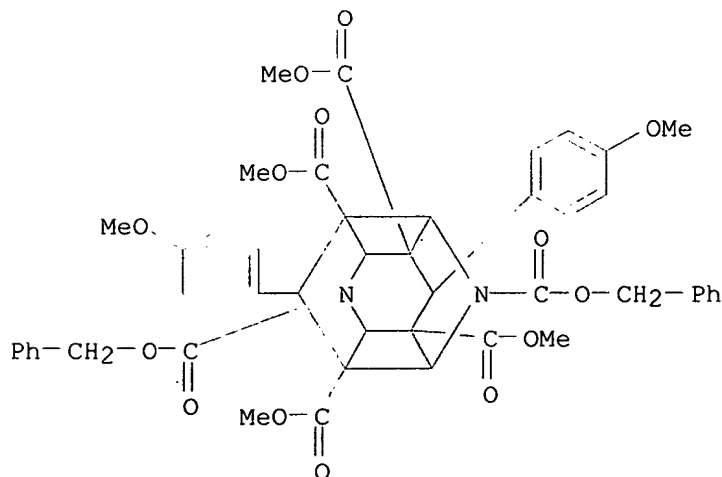
GI

Searched by: Mary Hale 308-4258 CM-1 12D16



AB A series of novel substituted aryldihydropyridine cage dimers I (R = H, MeO; R1 = H, Me, PhCH2) has been prepd. and evaluated for HIV-1 protease inhibition in in vitro assays. While the NH and N-Me derivs. of I were almost inactive with IC50 values of about 200 .mu.M, the N-benzyl substituted I (R = H, MeO; R1 = PhCH2) exhibited stronger activity, with the most active compd. I (R = H; R1 = PhCH2) having an IC50 value of 16.2 .mu.M against HIV-1 protease. I are competitive inhibitors of HIV-1 protease. With the increase of obsd. activity from NH and N-Me derivs. to N-benzyl compds., resp., the binding mode may correspond to that of cyclic and azacyclic ureas showing hydrophobic interactions of the four arom. residues to the S1/S1' and S2/S2' regions of HIV-1 protease.

L3 ANSWER 45 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 252671-43-5 REGISTRY
 CN 3,9-Diazapentacyclo[6.4.0.02,7.04,11.05,10]dodecane-1,3,5,7,9,11-hexacarboxylic acid, 6,12-bis(4-methoxyphenyl)-, 1,5,7,11-tetramethyl 3,9-bis(phenylmethyl) ester, stereoisomer (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C48 H46 N2 O14
 SR CA
 LC STN Files: CA, CAPLUS



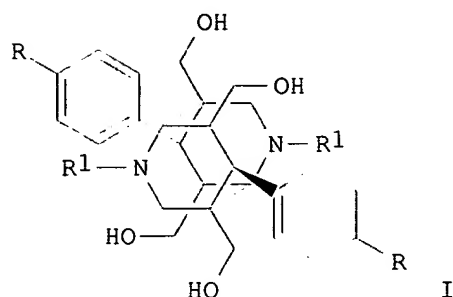
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:35586 Synthesis and Biological Evaluation of the First

Searched by: Mary Hale 308-4258 CM-1 12D16

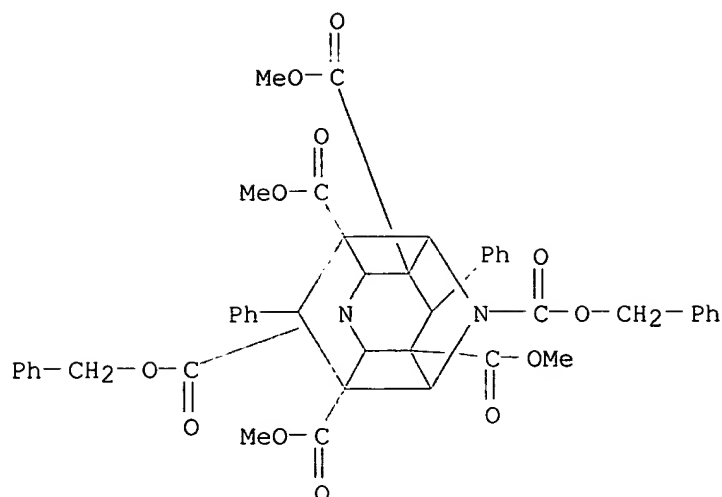
N-Alkyl Cage Dimeric 4-Aryl-1,4-dihydropyridines as Novel Nonpeptidic HIV-1 Protease Inhibitors. Hilgeroth, Andreas; Wiese, Michael; Billich, Andreas (Department of Pharmacy, Martin-Luther-University Halle-Wittenberg, Halle, D-06120, Germany). J. Med. Chem., 42(22), 4729-4732 (English) 1999. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

GI



AB A series of novel substituted aryldihydropyridine cage dimers I (R = H, MeO; R1 = H, Me, PhCH₂) has been prep'd. and evaluated for HIV-1 protease inhibition in in vitro assays. While the NH and N-Me derivs. of I were almost inactive with IC₅₀ values of about 200 .mu.M, the N-benzyl substituted I (R = H, MeO; R1 = PhCH₂) exhibited stronger activity, with the most active comp'd. I (R = H; R1 = PhCH₂) having an IC₅₀ value of 16.2 .mu.M against HIV-1 protease. I are competitive inhibitors of HIV-1 protease. With the increase of obsd. activity from NH and N-Me derivs. to N-benzyl compds., resp., the binding mode may correspond to that of cyclic and azacyclic ureas showing hydrophobic interactions of the four arom. residues to the S1/S1' and S2/S2' regions of HIV-1 protease.

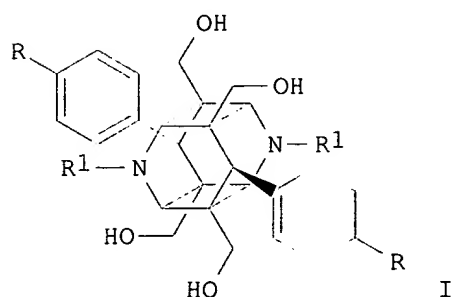
L3 ANSWER 46 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 252671-42-4 REGISTRY
 CN 3,9-Diazapentacyclo[6.4.0.02,7.04,11.05,10]dodecane-1,3,5,7,9,11-hexacarboxylic acid, 6,12-diphenyl-, 1,5,7,11-tetramethyl 3,9-bis(phenylmethyl) ester, stereoisomer (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C46 H42 N2 O12
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:35586 Synthesis and Biological Evaluation of the First N-Alkyl Cage Dimeric 4-Aryl-1,4-dihydropyridines as Novel Nonpeptidic HIV-1 Protease Inhibitors. Hilgeroth, Andreas; Wiese, Michael; Billich, Andreas (Department of Pharmacy, Martin-Luther-University Halle-Wittenberg, Halle, D-06120, Germany). J. Med. Chem., 42(22), 4729-4732 (English) 1999. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

GI

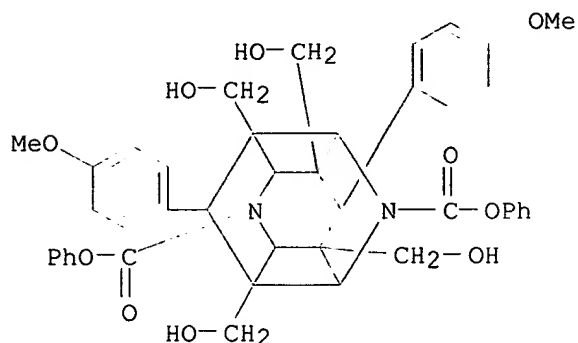


AB A series of novel substituted aryldihydropyridine cage dimers I (R = H, MeO; R1 = H, Me, PhCH2) has been prep'd. and evaluated for HIV-1 protease inhibition in in vitro assays. While the NH and N-Me derivs. of I were almost inactive with IC50 values of about 200 .mu.M, the N-benzyl substituted I (R = H, MeO; R1 = PhCH2) exhibited stronger activity, with the most active comp'd. I (R = H; R1 = PhCH2) having an IC50 value of 16.2 .mu.M against HIV-1 protease. I are competitive inhibitors of HIV-1 protease. With the increase of obs'd. activity from NH and N-Me derivs. to N-benzyl comp'ds., resp., the binding mode may correspond to that of cyclic and azacyclic ureas showing hydrophobic interactions of the four arom. residues to the S1/S1' and S2/S2' regions of HIV-1 protease.

L3 ANSWER 47 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 252668-63-6 REGISTRY

Searched by: Mary Hale 308-4258 CM-1 12D16

CN 3,9-Diazapentacyclo[6.4.0.0.2,7.0.4,11.0.5,10]dodecane-3,9-dicarboxylic acid,
1,5,7,11-tetrakis(hydroxymethyl)-6,12-bis(4-methoxyphenyl)-, diphenyl
ester, stereoisomer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C42 H42 N2 O10
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

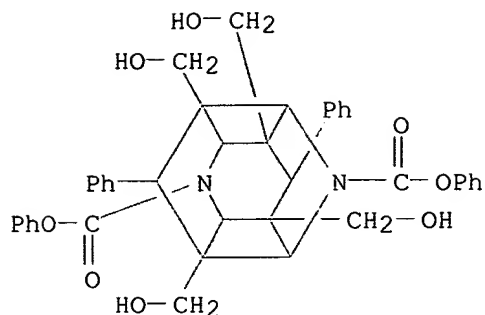


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:30340 Cage dimeric N-acyl- and N-acyloxy-4-aryl-1,4-dihydropyridines as first representatives of a novel class of HIV-1 protease inhibitors. Hilgeroth, Andreas; Billich, Andreas (Institut Pharmazeutische Chemie, Martin-Luther-Univ., Halle/Saale, D-06120, Germany). Arch. Pharm. (Weinheim, Ger.), 332(11), 380-384 (English) 1999. CODEN: ARPMAS. ISSN: 0365-6233. Publisher: Wiley-VCH Verlag GmbH.

AB The synthesis of a series of novel cage dimeric N-acyl and N-acyloxy-4-aryl-1,4-dihydropyridines starting either from solid-state synthetic ester dimers or from monomeric 4-aryl-1,4-dihydropyridines is presented. Their biol. evaluation as novel HIV-1 protease inhibitors showed 2 compds. with inhibitory activities of 52 (50 .mu.M) and 49% (25.mu.M), resp. Within each series of N-acyl and N-acyloxy derivs. NCOBz and NBoc groups were found to be the best substituents. Although they exhibiting only moderate activities these cage dimers hold promise as a class of novel non-peptidic HIV-1 protease inhibitors.

L3 ANSWER 48 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 252668-62-5 REGISTRY
CN 3,9-Diazapentacyclo[6.4.0.0.2,7.0.4,11.0.5,10]dodecane-3,9-dicarboxylic acid,
1,5,7,11-tetrakis(hydroxymethyl)-6,12-diphenyl-, diphenyl ester,
stereoisomer (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C40 H38 N2 O8
SR CA
LC STN Files: CA, CAPLUS, TOXLIT



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:30340 Cage dimeric N-acyl- and N-acyloxy-4-aryl-1,4-dihydropyridines as first representatives of a novel class of HIV-1 protease inhibitors. Hilgeroth, Andreas; Billich, Andreas (Institut Pharmazeutische Chemie, Martin-Luther-Univ., Halle/Saale, D-06120, Germany). Arch. Pharm. (Weinheim, Ger.), 332(11), 380-384 (English) 1999. CODEN: ARPMAS. ISSN: 0365-6233. Publisher: Wiley-VCH Verlag GmbH.

AB The synthesis of a series of novel cage dimeric N-acyl and N-acyloxy-4-aryl-1,4-dihydropyridines starting either from solid-state synthetic ester dimers or from monomeric 4-aryl-1,4-dihydropyridines is presented. Their biol. evaluation as novel HIV-1 protease inhibitors showed 2 compds. with inhibitory activities of 52 (50 .mu.M) and 49% (25.mu.M), resp. Within each series of N-acyl and N-acyloxy derivs. NCOBz and NBoc groups were found to be the best substituents. Although they exhibiting only moderate activities these cage dimers hold promise as a class of novel non-peptidic HIV-1 protease inhibitors.

L3 ANSWER 49 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 251346-95-9 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3,7-dicarboxylic acid, 2-hydroxy-, 3-(1,1-dimethylethyl) 7-(phenylmethyl) ester, (1S,5R)- (9CI) (CA INDEX NAME)

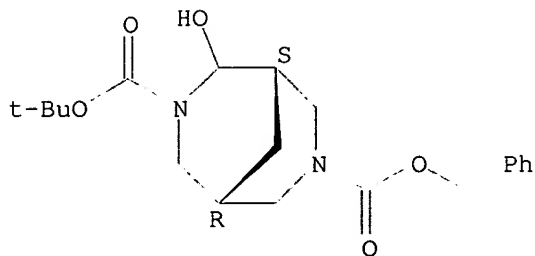
FS STEREOSEARCH

MF C20 H28 N2 O5

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



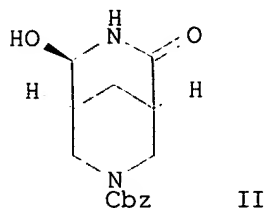
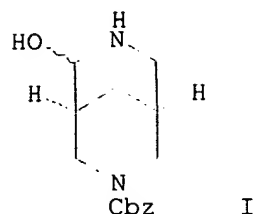
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 132:12427 An efficient chemoenzymatic access to chiral 3,7-diazabicyclo[3.3.1]nonane derivatives. Danieli, Bruno; Lesma, Giordano; Passarella, Daniele; Silvani, Alessandra; Viviani, Nunzia (Dipartimento di Chimica Organica e Industriale, Universita degli Studi di Milano, Centro CNR di Studio per le Sostanze Organiche Naturali, Milan, 21-20133, Italy). Tetrahedron, 55(40), 11871-11878 (English) 1999. CODEN: TETRAB. ISSN: 0040-4020. Publisher: Elsevier Science Ltd..

GI



AB Enantiopure 3,7-diazabicyclo[3.3.1]nonane derivs. I and II, potential precursors of quinolizidine alkaloids, were synthesized in high yields, starting from the biocatalytic asymmetric reduction of 3,5-disubstituted piperidines. Their application to the total synthesis of the new pharmacol. active compds. are also described.

L3 ANSWER 50 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 233272-01-0 REGISTRY

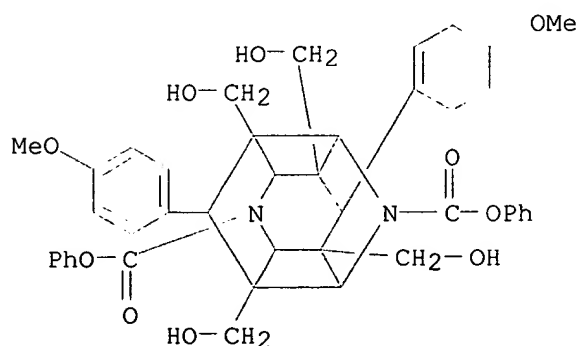
CN 3,9-Diazapentacyclo[6.4.0.0^{2,7}.0^{3,8}.0^{4,9}]dodecane-3,9-dicarboxylic acid, 1,5,7,11-tetrakis(hydroxymethyl)-6,12-bis(4-methoxyphenyl)-, diphenyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C42 H42 N2 O10

SR CA

LC STN Files: CA, CAPLUS, TOXLIT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:110837 Cage dimeric 4-aryl-1,4-dihydropyridines as promising lead structures for the development of a novel class of HIV-1 protease inhibitors. Hilgeroth, Andreas; Billich, Andreas (Inst. Pharmazeutische Chemie, Martin-Luther-Univ., Halle/Saale, D-06120,

Searched by: Mary Hale 308-4258 CM-1 12D16

Germany). Arch. Pharm. (Weinheim, Ger.), 332(1), 3-5 (English) 1999.
CODEN: ARPMAS. ISSN: 0365-6233. Publisher: Wiley-VCH Verlag GmbH.

AB N-acyl and acyloxy derivs. of the title compds. were prepd. and tested as HIV-1 protease inhibitors. They reached IC₅₀ and better values at 25 and 50 .mu.M, resp. With the exception of R₂ = CH₃, compds. with R₁ = H are better inhibitors than those with R₁ = OCH₃. Inhibition increased within each series of N-acyl and acyloxy derivs., resp., from Me to Bzl, OPh, and Boc.

L3 ANSWER 51 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 233272-00-9 REGISTRY

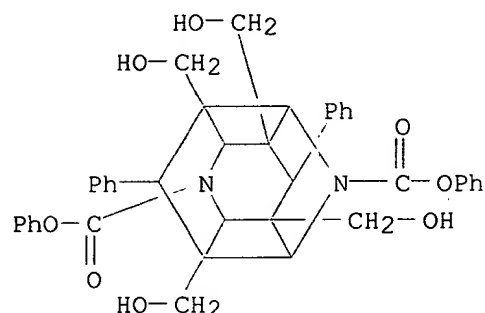
CN 3,9-Diazapentacyclo[6.4.0.0^{2,7}.0^{4,11}.0^{5,10}]dodecane-3,9-dicarboxylic acid, 1,5,7,11-tetrakis(hydroxymethyl)-6,12-diphenyl-, diphenyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C40 H38 N2 O8

SR CA

LC STN Files: CA, CAPLUS, TOXLIT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:110837 Cage dimeric 4-aryl-1,4-dihydropyridines as promising lead structures for the development of a novel class of HIV-1 protease inhibitors. Hilgeroth, Andreas; Billich, Andreas (Inst. Pharmazeutische Chemie, Martin-Luther-Univ., Halle/Saale, D-06120, Germany). Arch. Pharm. (Weinheim, Ger.), 332(1), 3-5 (English) 1999. CODEN: ARPMAS. ISSN: 0365-6233. Publisher: Wiley-VCH Verlag GmbH.

AB N-acyl and acyloxy derivs. of the title compds. were prepd. and tested as HIV-1 protease inhibitors. They reached IC₅₀ and better values at 25 and 50 .mu.M, resp. With the exception of R₂ = CH₃, compds. with R₁ = H are better inhibitors than those with R₁ = OCH₃. Inhibition increased within each series of N-acyl and acyloxy derivs., resp., from Me to Bzl, OPh, and Boc.

L3 ANSWER 52 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 228270-27-7 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(1,3-benzodioxol-5-yl)butyl]-9-(benzoyloxy)-9-methyl-, phenylmethyl ester, (9-syn)- (9CI) (CA INDEX NAME)

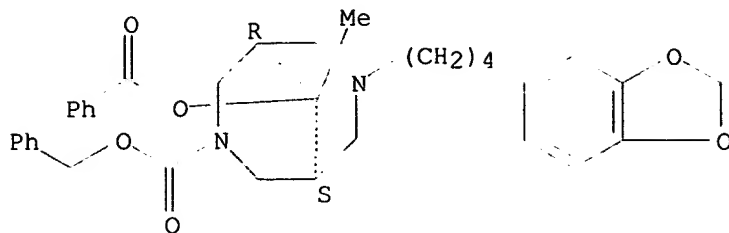
FS STEREOSEARCH

MF C34 H38 N2 O6

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.

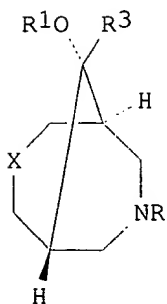


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58813 Preparation of bicyclic nitrogen compounds as Kv2.1 antagonists. Bubacz, Dulce Garrido; Dukes, Iain David; McLean, Ed Williams; Noe, Robert Anderson; Peat, Andrew James; Szewczyk, Jerzy Ryszard; Thomson, Stephen Andrew; Worley, Jennings Franklin, III (Glaxo Group Limited, UK). PCT Int. Appl. WO 9932487 A1 19990701, 53 pp.
DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 1998-EP8085 19981216. PRIORITY: GB 1997-26630 19971218.

GI



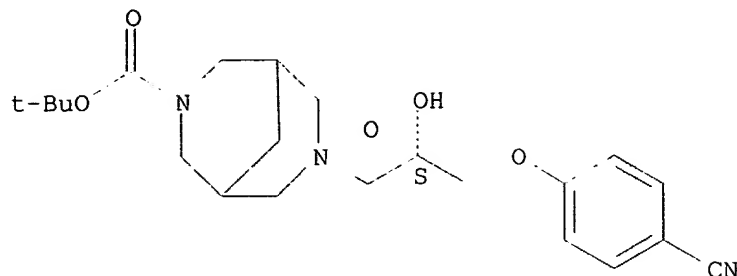
AB Treatment of non-insulin dependent diabetes mellitus, i.e., administration of antagonists I [R = alkyl, alkenyl, alkoxyalkyl, etc.; R1 = substituted benzyl, substituted benzoyl, etc.; X = S, O, NR2; R3 = H, alkyl] of the delayed rectifier potassium channel Kv2.1, is reported. E.g., anti-3-(4-(3,4-methylenedioxyphenyl)butyl)-7-methyl-3,7-diazabicyclononan-9-ol 4-chlorobenzoate was prepd.

L3 ANSWER 53 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227955-68-2 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2R)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester, 7-oxide, rel-(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H31 N3 O5

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

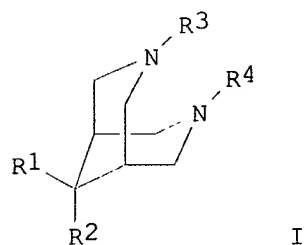
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 54 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227955-64-8 REGISTRY

CN 7-Aza-3-azoniabicyclo[3.3.1]nonane, 3-[(2R)-3-(4-cyanophenoxy)-2-hydroxypropyl]-7-[(1,1-dimethylethoxy)carbonyl]-3-methyl-, rel-, acetate (salt) (9CI) (CA INDEX NAME)

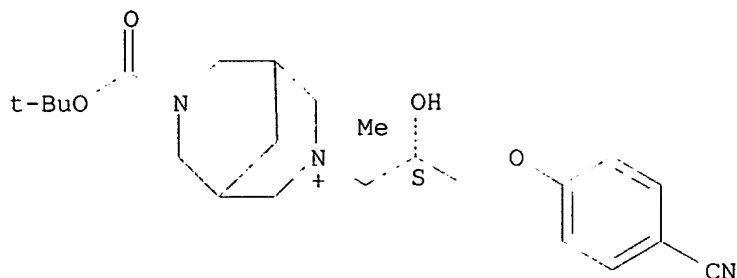
Searched by: Mary Hale 308-4258 CM-1 12D16

FS STEREOSEARCH
MF C23 H34 N3 O4 . C2 H3 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

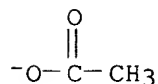
CRN 227955-63-7
CMF C23 H34 N3 O4

Absolute stereochemistry.



CM 2

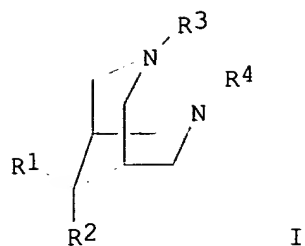
CRN 71-50-1
CMF C2 H3 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

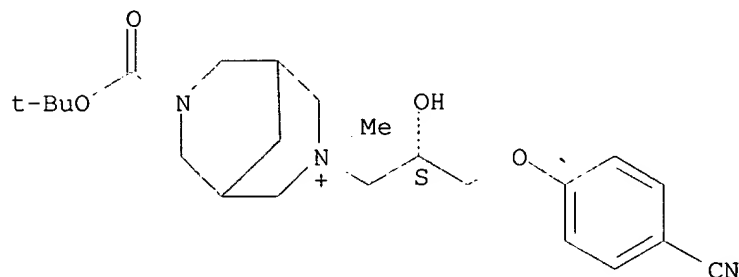
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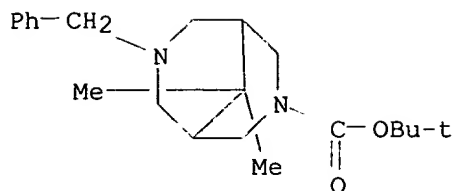
AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 55 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227955-63-7 REGISTRY
 CN 7-Aza-3-azoniabicyclo[3.3.1]nonane, 3-[(2R)-3-(4-cyanophenoxy)-2-hydroxypropyl]-7-[(1,1-dimethylethoxy)carbonyl]-3-methyl-, rel- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C23 H34 N3 O4
 CI COM
 SR CA

Absolute stereochemistry.



L3 ANSWER 56 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227941-06-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9,9-dimethyl-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H32 N2 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

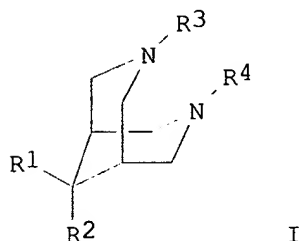


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

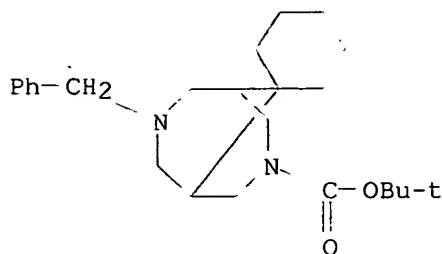
GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 57 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227941-05-1 REGISTRY
CN Spiro[cyclohexane-1,9'-[3,7]diazabicyclo[3.3.1]nonane]-3'-carboxylic acid, 7'-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H36 N2 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

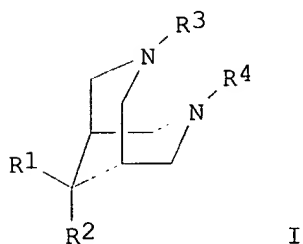


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



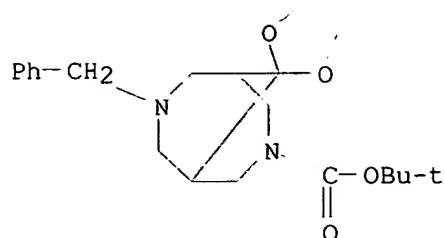
I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 58 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227941-01-7 REGISTRY
CN Spiro[3,7-diazabicyclo[3.3.1]nonane-9,2'-[1,3]dioxolane]-3-carboxylic acid, 7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H30 N2 O4
SR CA

Searched by: Mary Hale 308-4258 CM-1 12D16

LC STN Files: CA, CAPLUS, USPATFULL

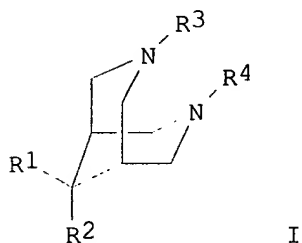


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 59 OF 150 REGISTRY COPYRIGHT 2002 ACS

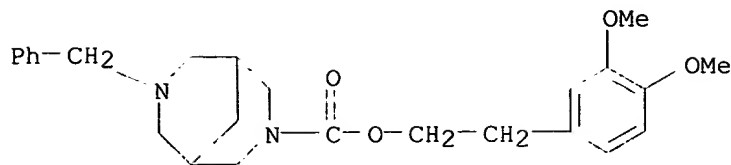
RN 227940-98-9 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-(phenylmethyl)-, 2-(3,4-dimethoxyphenyl)ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

Searched by: Mary Hale 308-4258 CM-1 12D16

MF C25 H32 N2 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

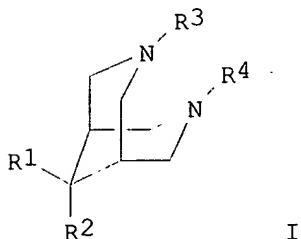


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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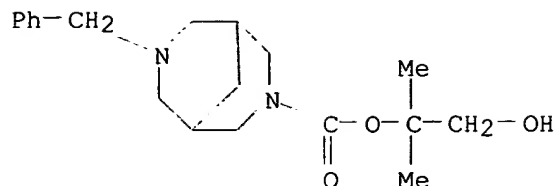
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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 60 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-97-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-(phenylmethyl)-, 2-hydroxy-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H28 N2 O3

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

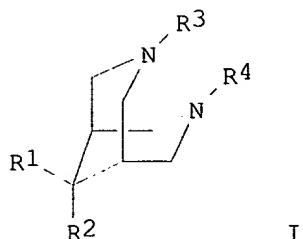


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



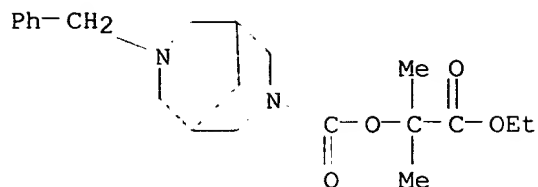
I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 61 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-96-7 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-(phenylmethyl)-, 2-ethoxy-1,1-dimethyl-2-oxoethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H30 N2 O4

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

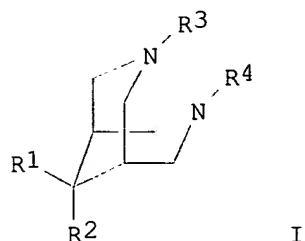


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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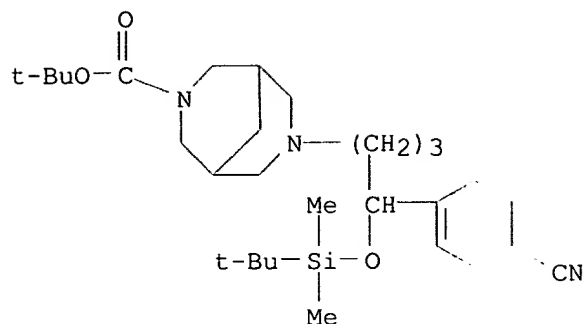


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 62 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-94-5 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
MF C29 H47 N3 O3 Si

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

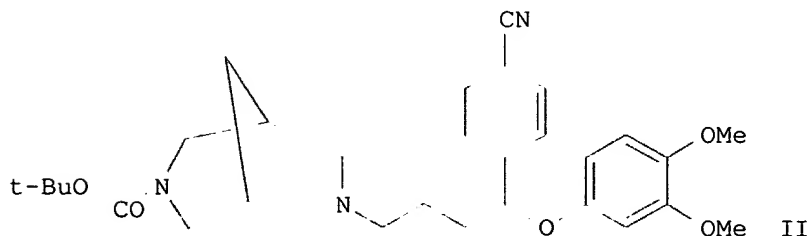
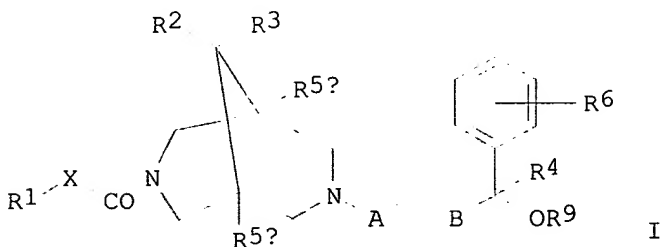


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42149 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

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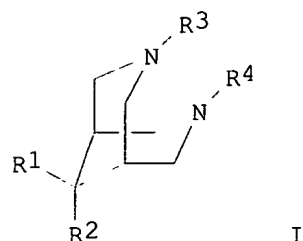


Searched by: Mary Hale 308-4258 CM-1 12D16

AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 2: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 63 OF 150 REGISTRY COPYRIGHT 2002 ACS

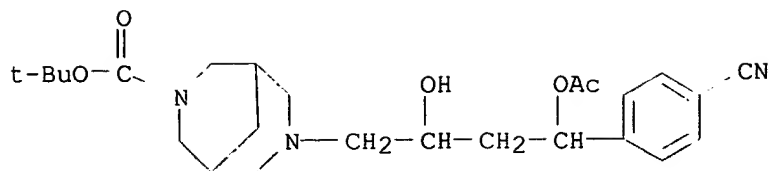
RN 227940-90-1 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(acetyloxy)-4-(4-cyanophenyl)-2-hydroxybutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

MF C25 H35 N3 O5

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

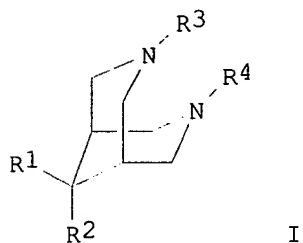


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

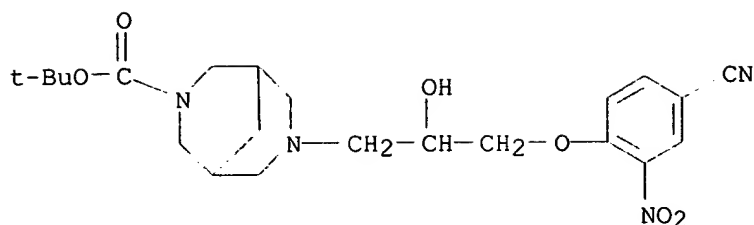
GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 64 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-84-3 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyano-2-nitrophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H30 N4 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

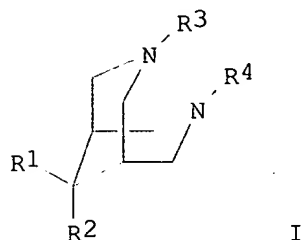


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

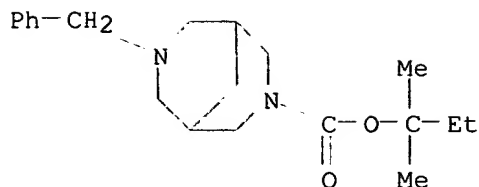


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 65 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-79-6 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-(phenylmethyl)-, 1,1-dimethylpropyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H30 N2 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

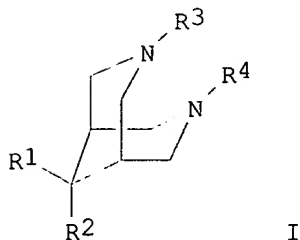


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

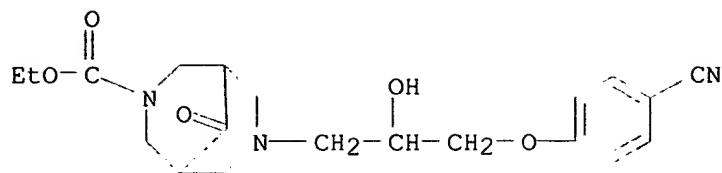


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 66 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-78-5 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-9-oxo-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H25 N3 O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16



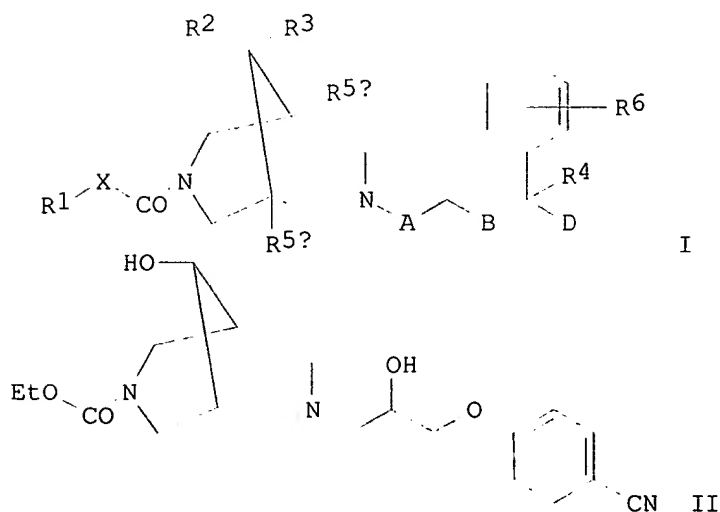
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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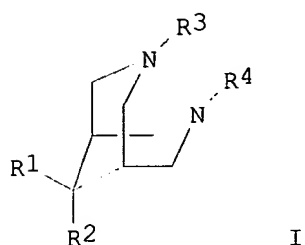
AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prep'd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prep'd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin,

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and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 2: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 67 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-74-1 REGISTRY

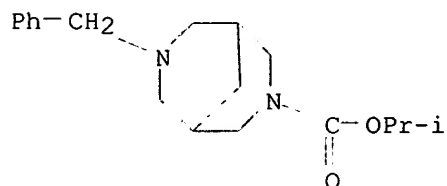
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FS 3D CONCORD

MF C18 H26 N2 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



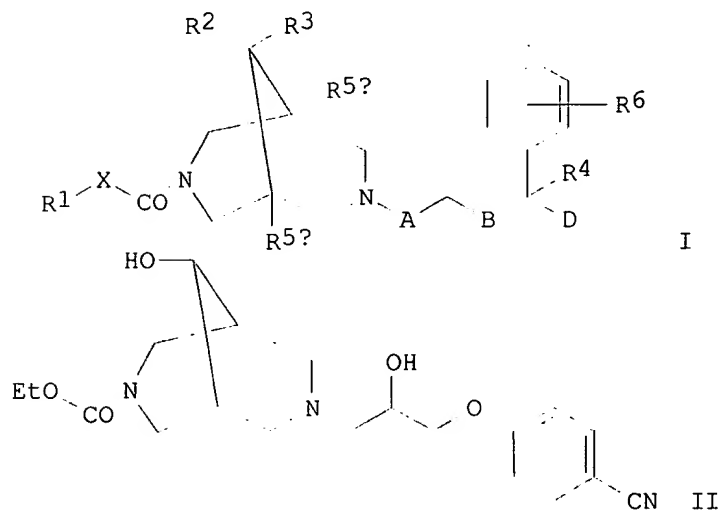
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Searched by: Mary Hale 308-4258 CM-1 12D16

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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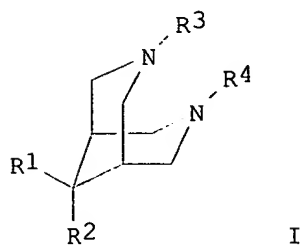
AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 2: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE,

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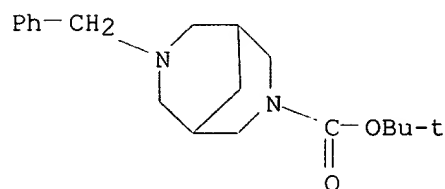
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APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 68 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-71-8 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
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LC STN Files: CA, CAPLUS, CASREACT, TOXLIT, USPATFULL



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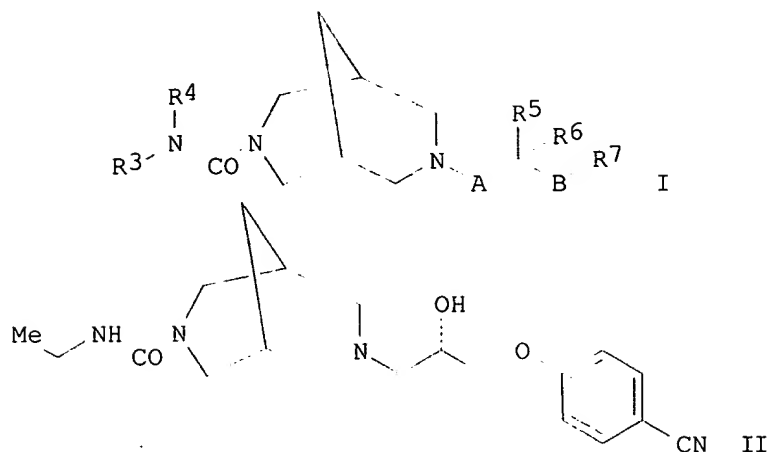
6 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:56700 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Alstermark, Christer; Andersson, Kjell; Bjore, Annika; Bjorsne, Magnus; Lindstedt, Alstermark Eva-Lotte; Nilsson, Goran; Polla, Magnus; Strandlund, Gert; Ortengren, Ylva (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000077000 A1 20001221, 130 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,

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TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English).
 CODEN: PIXXD2. APPLICATION: WO 2000-SE1254 20000615. PRIORITY: SE 1999-2268 19990616.

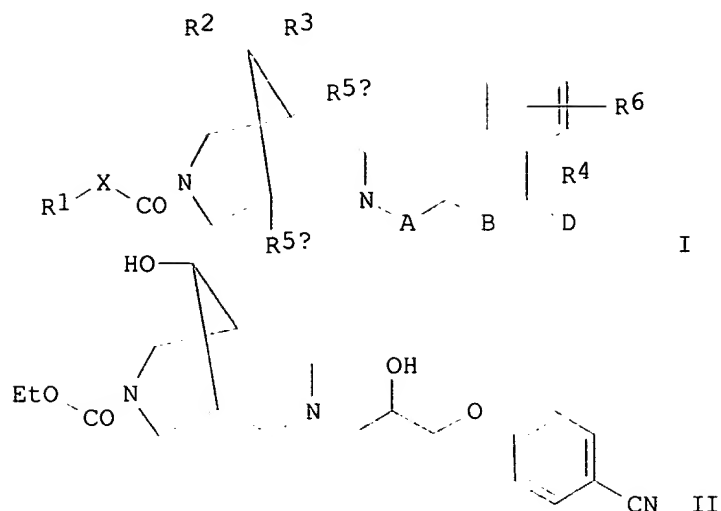
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AB Bispidines, such as I [R3 = H, alkyl; R4 = H, alkyl, alkoxy; NR3R4 = heterocyclyl; R5 = H, halogen, alkyl, alkoxy, acyloxy, alkylsulfonyloxy, carbamoyl, etc.; R6 = H, alkyl; R5R6 = O; R7 = alkyl, aryl, heterocyclyl; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. with 51% yield by amidation of (S)-4-[3-(3,7-diazabicyclo[3.3.1]non-3-yl)-2-hydroxypropoxy]benzonitrile with Et isocyanate. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 2: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

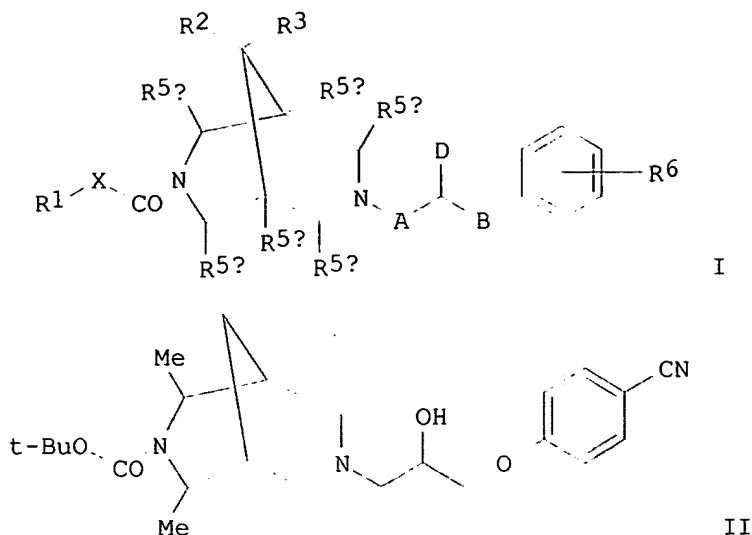
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AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 3: 134:42150 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjorsne, Magnus; Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Ohlsson, Bengt (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076998 A1 20001221, 76 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 2000-SE1252 20000615. PRIORITY: SE 1999-2269 19990616.

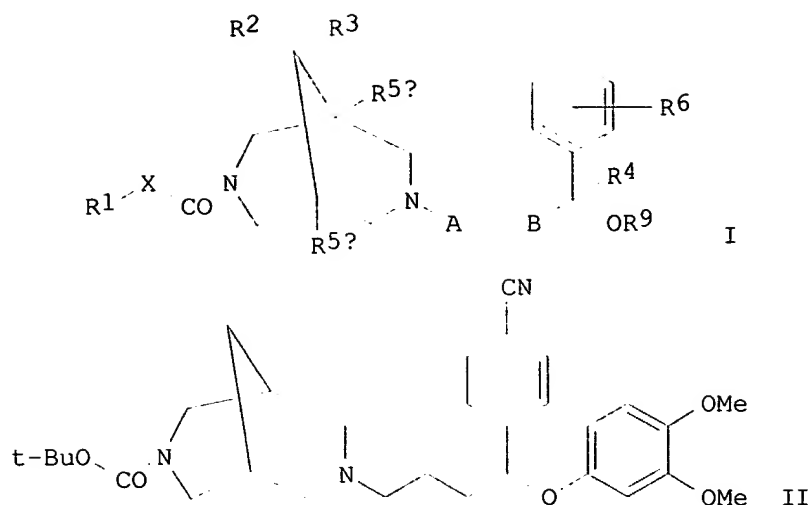
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AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R5a, R5b, R5c, R5d, R5e, R5f = H, alkyl; R6 = OH, CN, NO₂, NH₂, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = OH, alkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-cyanophenol, and epichlorohydrin. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 4: 134:42149 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

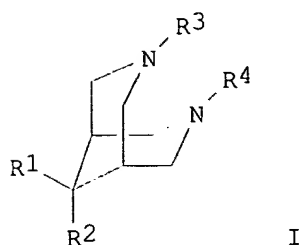
REFERENCE 5: 132:284247 A dried or frozen pharmaceutical preparation containing a class III antiarrhythmic compound. Bjore, Annika; Granath, Anna-Karin (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000021533 A1 20000420, 31 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-SE1828 19991011. PRIORITY: SE 1998-3517 19981015.

AB The present invention relates to dried preps. contg. a class III antiarrhythmic compd. in the form of cryst. or amorphous salt or any combination thereof, where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. The present invention also relates to frozen preps. contg. a class III antiarrhythmic compd. in the form of salt soln., where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. Preferred preps. contain a salt of the compd. 3,7-diazabicyclo[3.3.1]-nonane-3-carboxylic acid 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-1,1-dimethylethyl ester (Compd. A). Further aspects of the present invention include salts of Compd. A per se, processes for prepg. the prepn., as well as use of the preps. for prophylaxis and/or treatment of cardiac arrhythmia.

REFERENCE 6: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus

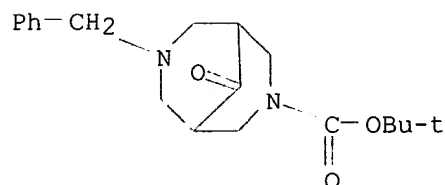
(Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
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 LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
 APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 69 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-70-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9-oxo-7-(phenylmethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
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 MF C19 H26 N2 O3
 SR CA
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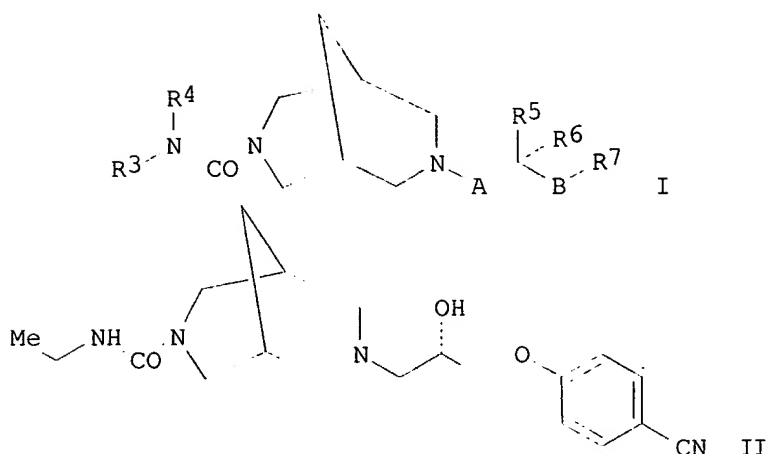
4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:56700 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Alstermark, Christer; Andersson, Kjell; Bjore, Annika; Bjorsne, Magnus; Lindstedt, Alstermark Eva-Lotte; Nilsson, Goran; Polla, Magnus; Strandlund, Gert; Ortengren, Ylva (Astrazeneca AB, Swed.).

Searched by: Mary Hale 308-4258 CM-1 12D16

PCT Int. Appl. WO 2000077000 A1 20001221, 130 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1254 20000615. PRIORITY: SE 1999-2268 19990616.

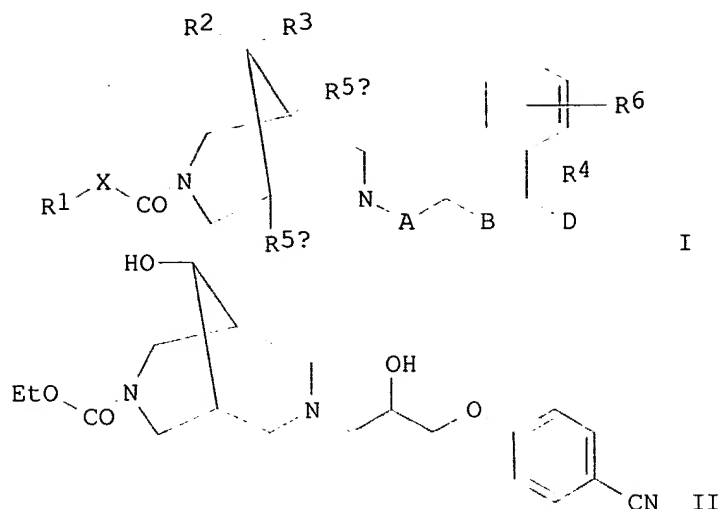
GI



AB Bispidines, such as I [R3 = H, alkyl; R4 = H, alkyl, alkoxy; NR3R4 = heterocyclyl; R5 = H, halogen, alkyl, alkoxy, acyloxy, alkylsulfonyloxy, carbamoyl, etc.; R6 = H, alkyl; R5R6 = O; R7 = alkyl, aryl, heterocyclyl; A, B = bond, linking group, such as alkylene, etc.], were prep'd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prep'd. with 51% yield by amidation of (S)-4-[3-(3,7-diazabicyclo[3.3.1]non-3-yl)-2-hydroxypropoxy]benzonitrile with Et isocyanate. The prep'd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 2: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

GI



AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prep'd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prep'd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prep'd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

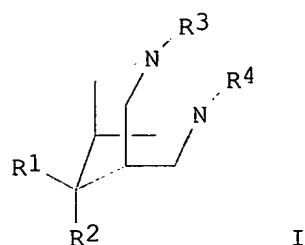
REFERENCE 3: 132:284247 A dried or frozen pharmaceutical preparation containing a class III antiarrhythmic compound. Bjore, Annika; Granath, Anna-Karin (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000021533 A1 20000420, 31 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-SE1828 19991011. PRIORITY: SE 1998-3517 19981015.

AB The present invention relates to dried prepns. contg. a class III antiarrhythmic comp'd. in the form of cryst. or amorphous salt or any combination thereof, where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. The present invention also relates to frozen prepns. contg. a class III antiarrhythmic comp'd. in the form of salt soln., where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. Preferred prepns. contain a salt of the comp'd. 3,7-diazabicyclo[3.3.1]-nonane-3-carboxylic acid 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-1,1-dimethylethyl ester (Compd. A). Further aspects of the present invention include salts of Compd. A per se, processes for prepg. the prep'n., as well as use of the prepns. for prophylaxis and/or treatment of cardiac arrhythmia.

REFERENCE 4: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus

(Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
 DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,
 CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
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 LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
 APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 70 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-69-4 REGISTRY

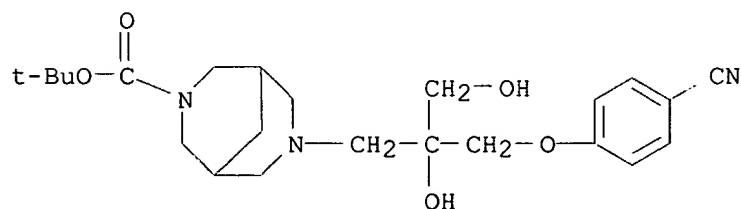
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxy-2-(hydroxymethyl)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C23 H33 N3 O5

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



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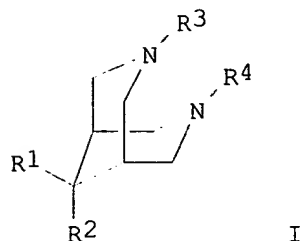
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark,

Searched by: Mary Hale 308-4258 CM-1 12D16

Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 71 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-68-3 REGISTRY

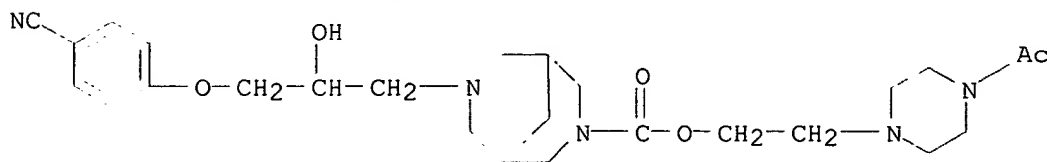
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-(4-acetyl-1-piperazinyl)ethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H37 N5 O5

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



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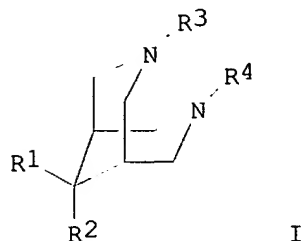
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark,

Searched by: Mary Hale 308-4258 CM-1 12D16

Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 72 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-67-2 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, cyclopropylmethyl ester (9CI) (CA INDEX NAME)

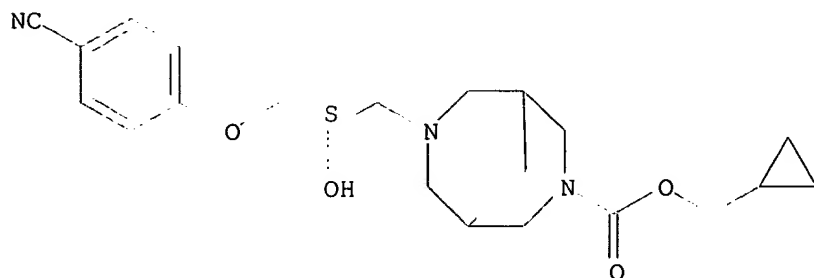
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SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



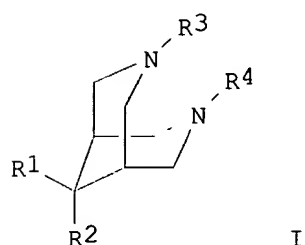
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Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 73 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-66-1 REGISTRY

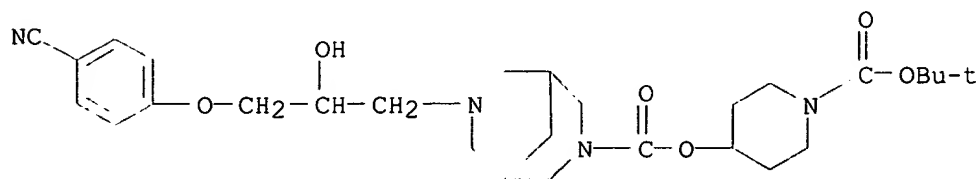
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FS 3D CONCORD

MF C28 H40 N4 O6

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



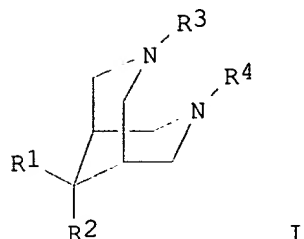
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Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 74 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-65-0 REGISTRY

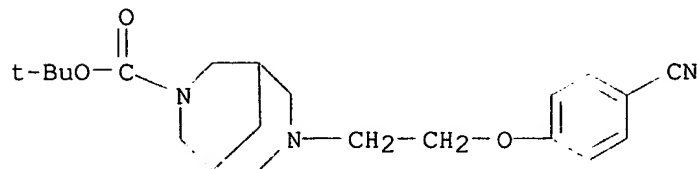
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-(4-cyanophenoxy)ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H29 N3 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



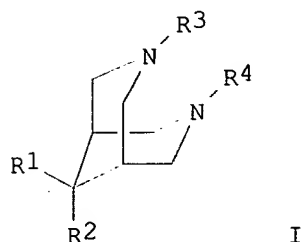
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Searched by: Mary Hale 308-4258 CM-1 12D16

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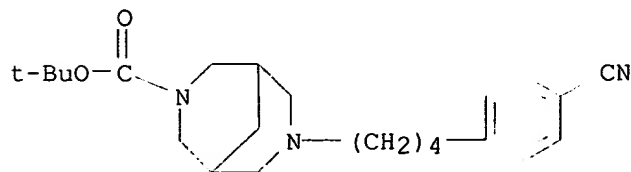
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 75 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-64-9 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H33 N3 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

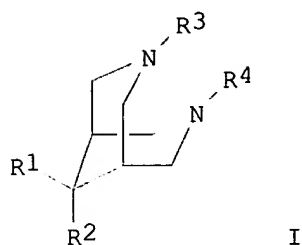
1 REFERENCES IN FILE CA (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

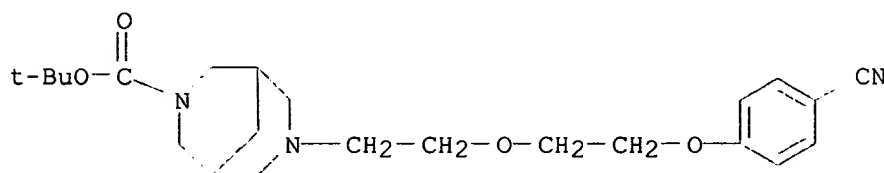
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 76 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-63-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-[2-(4-cyanophenoxy)ethoxy]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H33 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

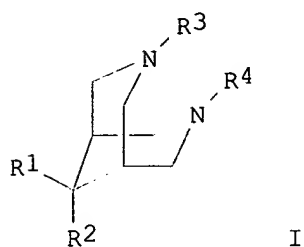
1 REFERENCES IN FILE CA (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

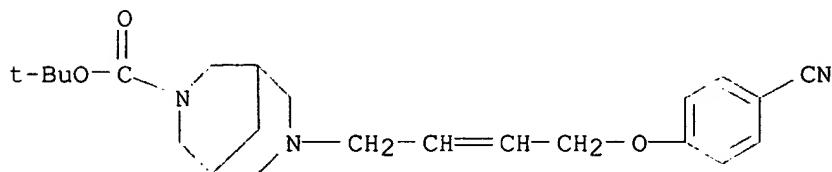
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 77 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-62-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenoxy)-2-butenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H31 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



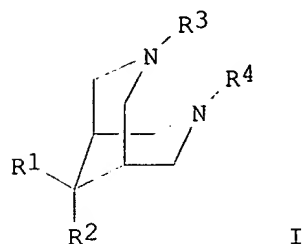
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Searched by: Mary Hale 308-4258 CM-1 12D16

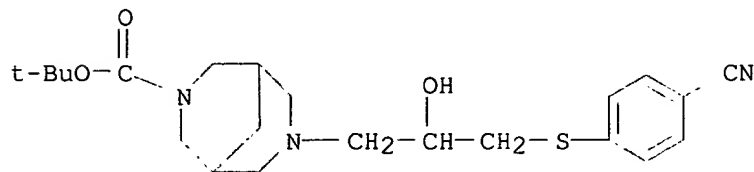
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 78 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-61-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[(4-cyanophenyl)thio]-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H31 N3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



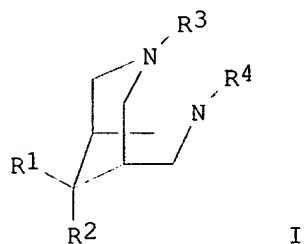
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Searched by: Mary Hale 308-4258 CM-1 12D16

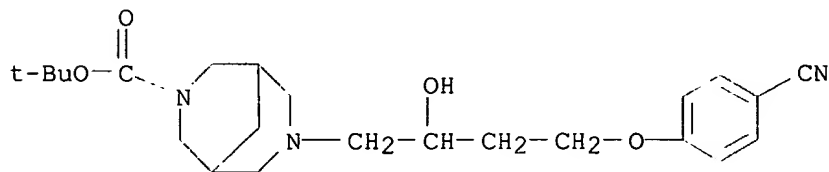
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 79 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-60-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenoxy)-2-hydroxybutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H33 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



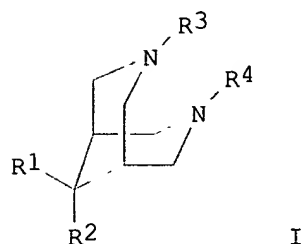
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1 REFERENCES IN FILE CA (1967 TO DATE)
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Searched by: Mary Hale 308-4258 CM-1 12D16

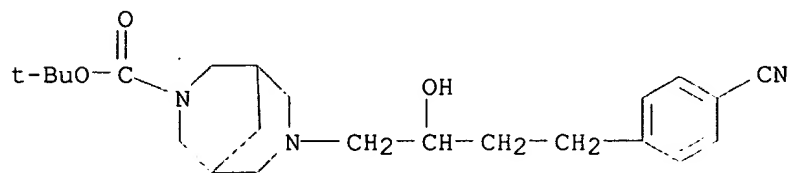
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 80 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-59-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-2-hydroxybutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H33 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

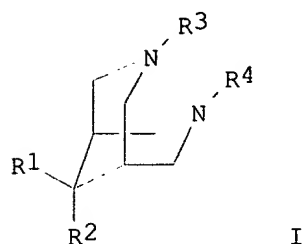
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-

Searched by: Mary Hale 308-4258 CM-1 12D16

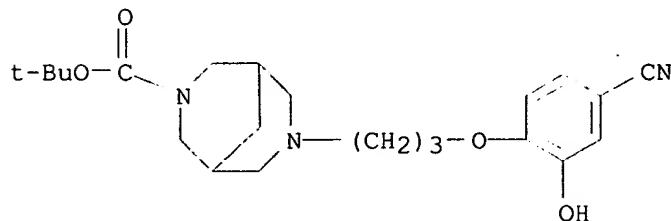
carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 81 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-58-1 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyano-2-hydroxyphenoxy)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H31 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



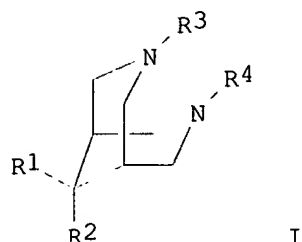
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1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 82 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-57-0 REGISTRY

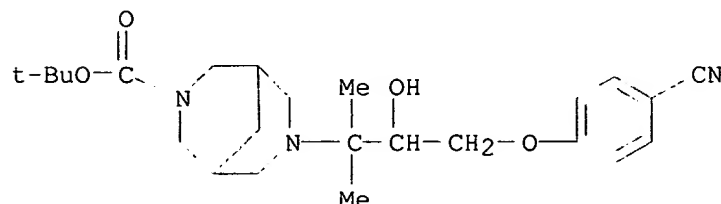
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxy-1,1-dimethylpropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



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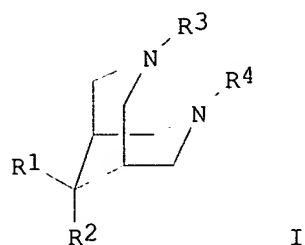
1 REFERENCES IN FILE CA (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 83 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-56-9 REGISTRY

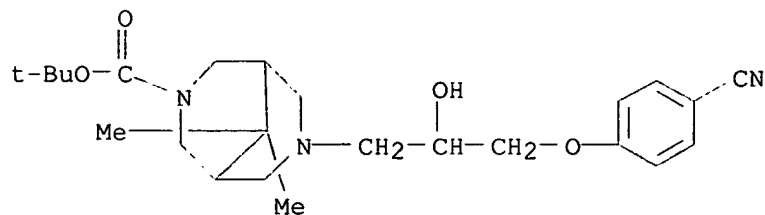
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-9,9-dimethyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



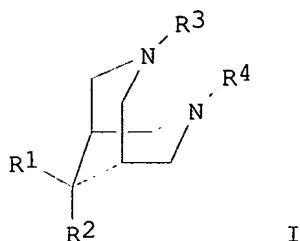
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Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
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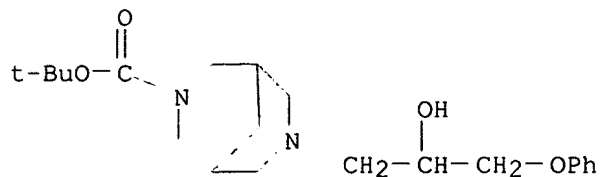
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 84 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-55-8 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-(2-hydroxy-3-phenoxypropyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H32 N2 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



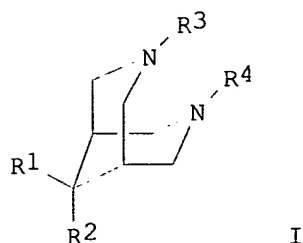
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Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 85 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-54-7 REGISTRY

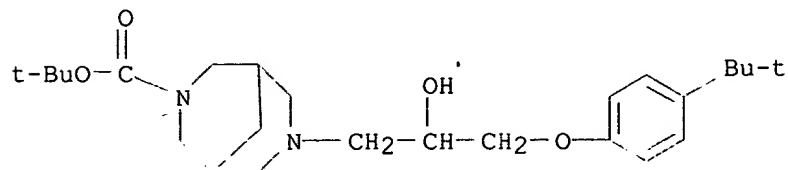
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[4-(1,1-dimethylethyl)phenoxy]-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H40 N2 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



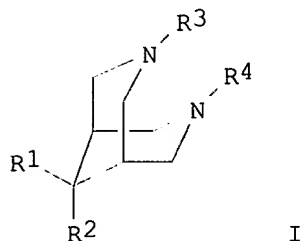
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 86 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-53-6 REGISTRY

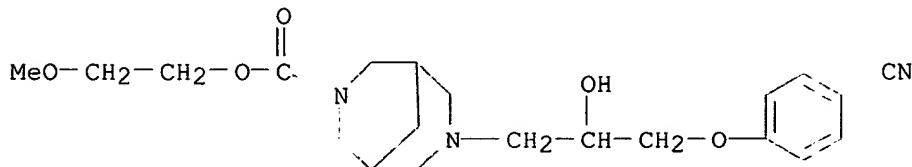
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-methoxyethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H29 N3 O5

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



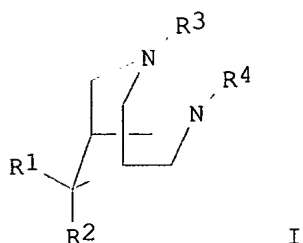
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

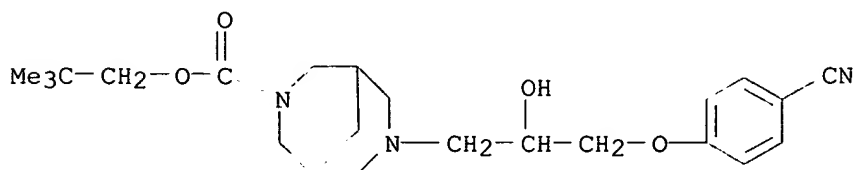
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 87 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-52-5 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H33 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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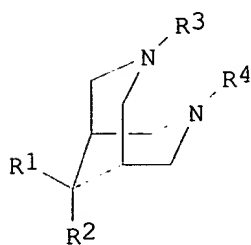
1 REFERENCES IN FILE CA (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 88 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-51-4 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

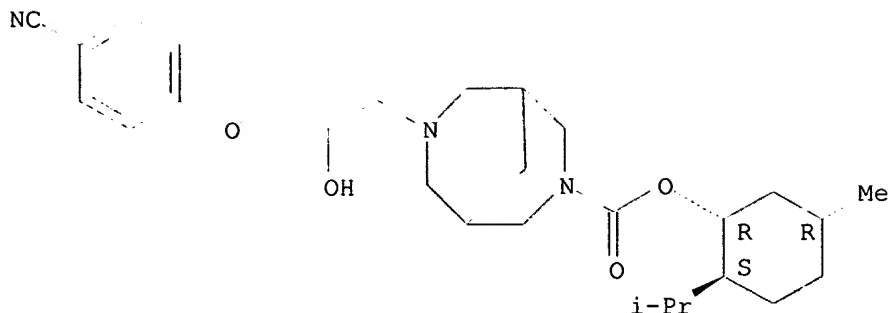
FS STEREOSEARCH

MF C28 H41 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



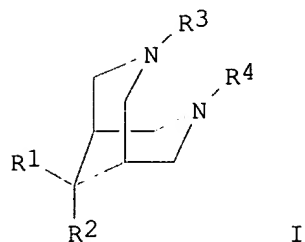
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 89 OF 150 REGISTRY COPYRIGHT 2002 ACS

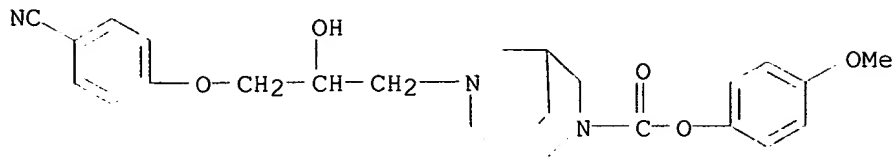
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CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 4-methoxyphenyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

Searched by: Mary Hale 308-4258 CM-1 12D16

MF C25 H29 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

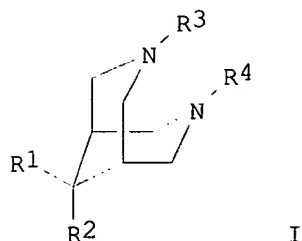


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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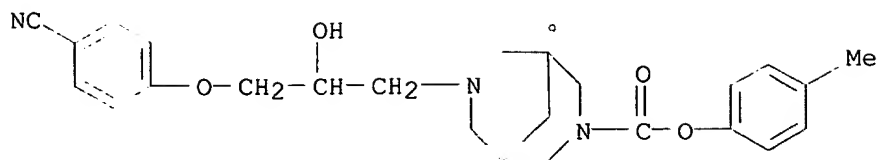


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 90 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-49-0 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 4-methylphenyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C25 H29 N3 O4

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

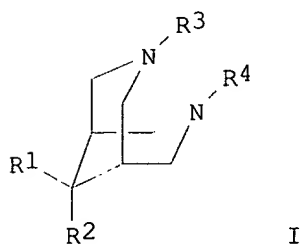


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



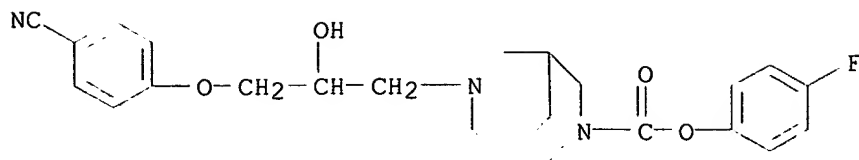
I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = .H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 91 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-48-9 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 4-fluorophenyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H26 F N3 O4
SR CA

Searched by: Mary Hale 308-4258 CM-1 12D16

LC STN Files: CA, CAPLUS, USPATFULL

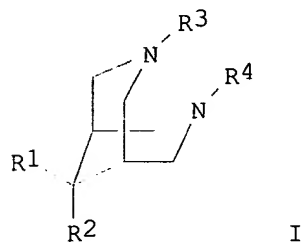


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

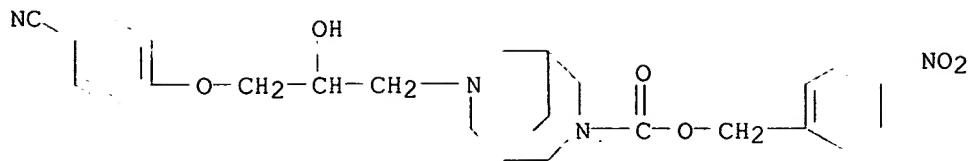
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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 92 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-47-8 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, (4-nitrophenyl)methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H28 N4 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

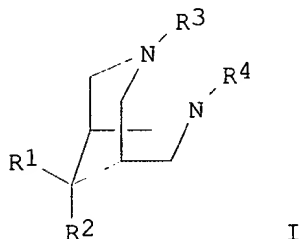


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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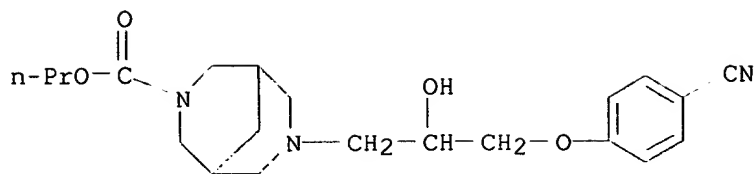


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 93 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-46-7 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, propyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H29 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16



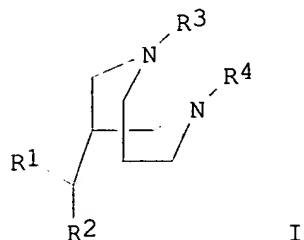
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 94 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-45-6 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)

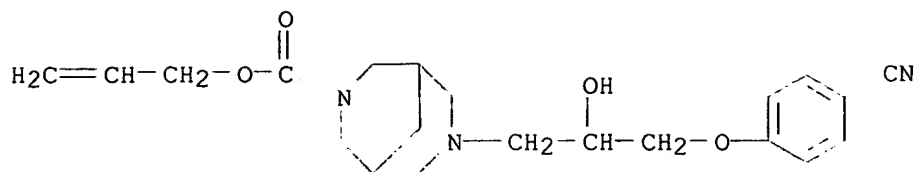
FS 3D CONCORD

MF C21 H27 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

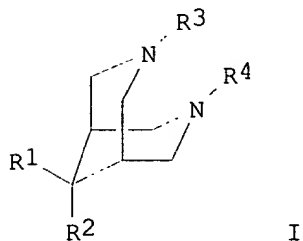


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

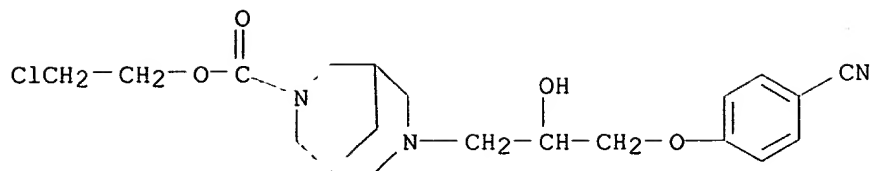
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 95 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-44-5 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-chloroethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H26 Cl N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

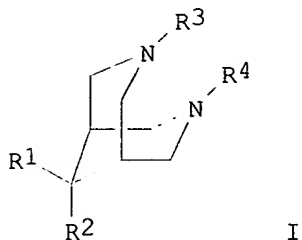


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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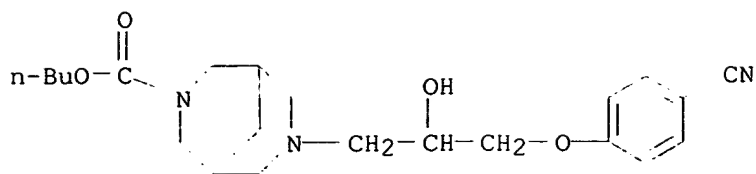


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 96 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-43-4 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, butyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H31 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

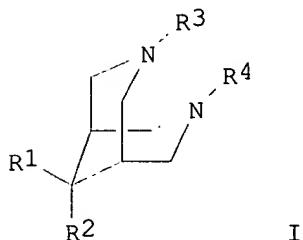


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

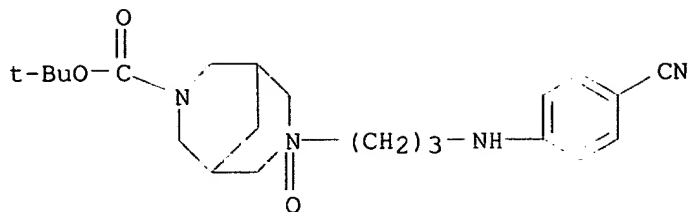
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I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

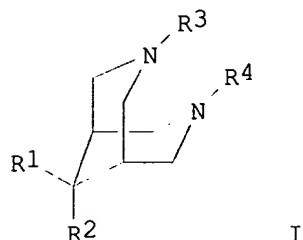
L3 ANSWER 97 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-42-3 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[(4-cyanophenyl)amino]propyl]-, 1,1-dimethylethyl ester, 7-oxide (9CI) (CA INDEX NAME)
MF C22 H32 N4 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

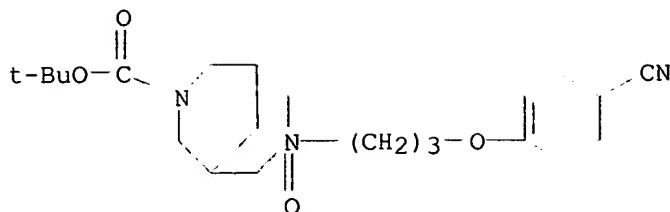
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

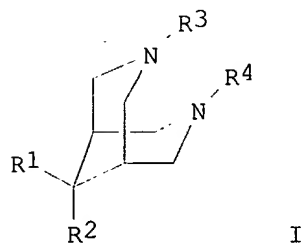
L3 ANSWER 98 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-41-2 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)propyl]-, 1,1-dimethylethyl ester, 7-oxide (9CI) (CA INDEX NAME)
MF C22 H31 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

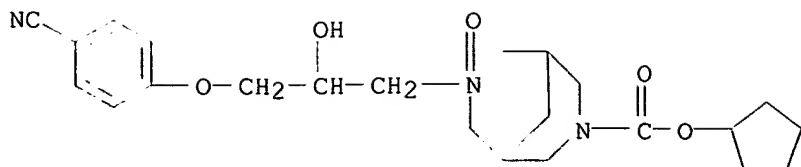
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

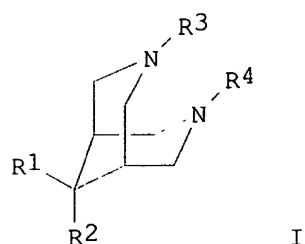
L3 ANSWER 99 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-40-1 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, cyclopentyl ester, 7-oxide (9CI) (CA INDEX NAME)
MF C23 H31 N3 O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 100 OF 150 REGISTRY COPYRIGHT 2002 ACS

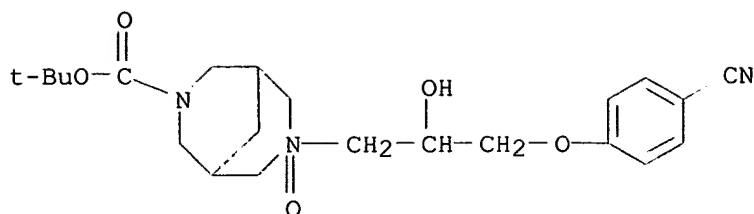
RN 227940-39-8 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester, 7-oxide (9CI) (CA INDEX NAME)

MF C22 H31 N3 O5

SR CA

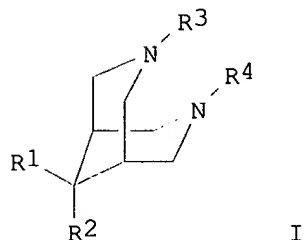
LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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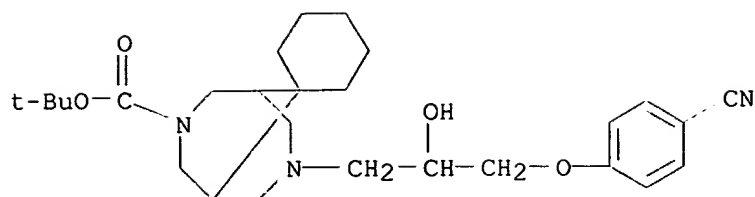


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 101 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-38-7 REGISTRY
CN Spiro[cyclohexane-1,9'-[3,7]diazabicyclo[3.3.1]nonane]-3'-carboxylic acid, 7'-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C27 H39 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

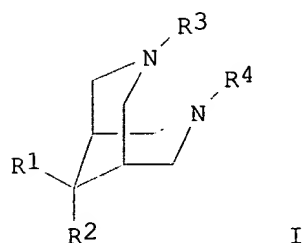


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 102 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-37-6 REGISTRY

CN Spiro[3,7-diazabicyclo[3.3.1]nonane-9,2'-[1,3]dioxolane]-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH

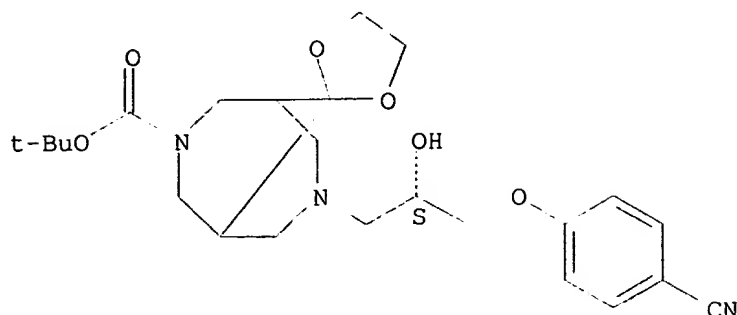
MF C24 H33 N3 O6

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

Absolute stereochemistry.



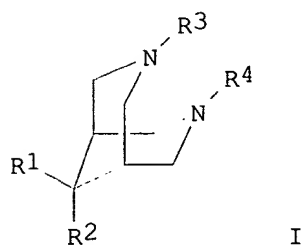
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

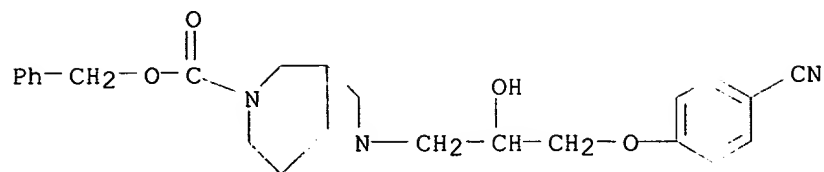
L3 ANSWER 103 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-36-5 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Searched by: Mary Hale 308-4258 CM-1 12D16

FS 3D CONCORD
 MF C25 H29 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

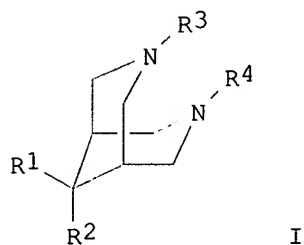


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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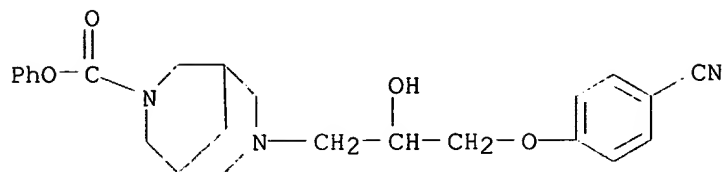


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 104 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-35-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, phenyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD

Searched by: Mary Hale 308-4258 CM-1 12D16

MF C24 H27 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

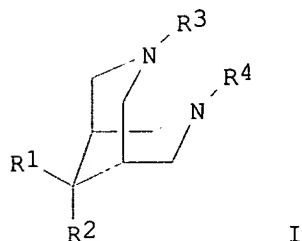


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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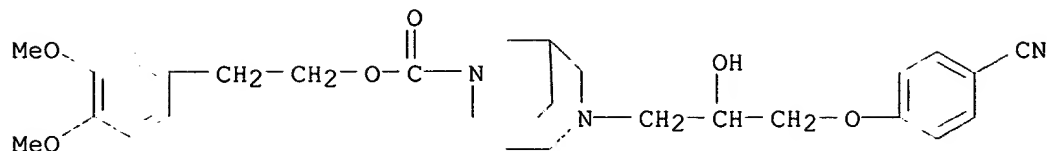


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 105 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-34-3 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-(3,4-dimethoxyphenyl)ethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H35 N3 O6

Searched by: Mary Hale 308-4258 CM-1 12D16

SR CA
LC STN Files: CA, CAPLUS, USPATFULL

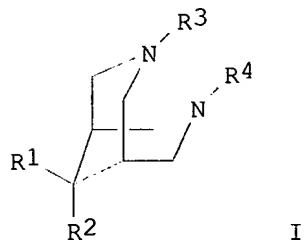


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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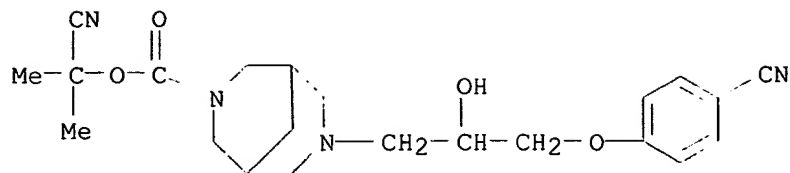


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3)(II; R3 = H)(prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 106 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-33-2 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1-cyano-1-methylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H28 N4 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

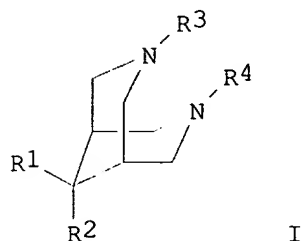


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

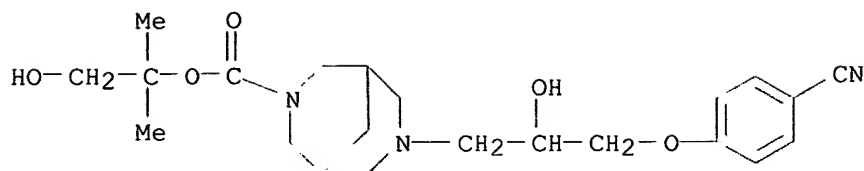
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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 107 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-32-1 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-hydroxy-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H31 N3 O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

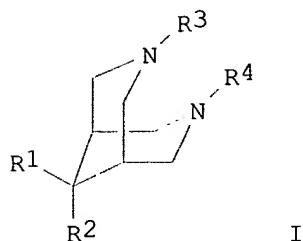


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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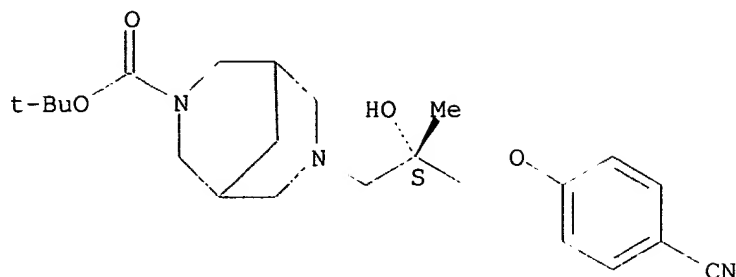


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 108 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-31-0 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxy-2-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H33 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

Absolute stereochemistry.

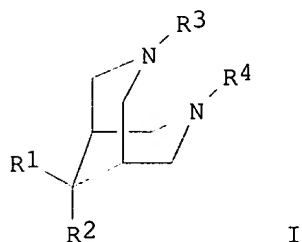


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 109 OF 150 REGISTRY COPYRIGHT 2002 ACS

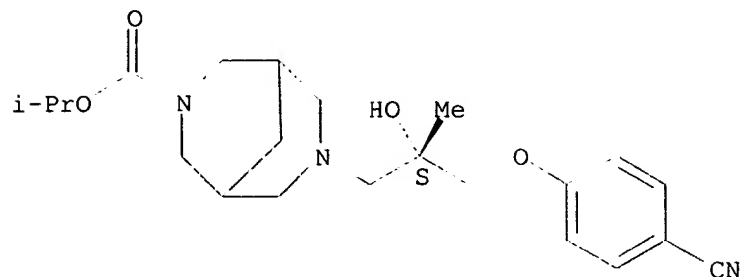
RN 227940-30-9 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxy-2-methylpropyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

Searched by: Mary Hale 308-4258 CM-1 12D16

FS STEREOSEARCH
 MF C22 H31 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

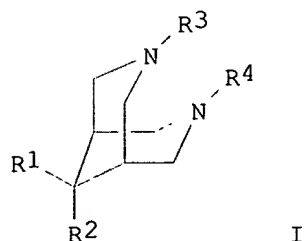


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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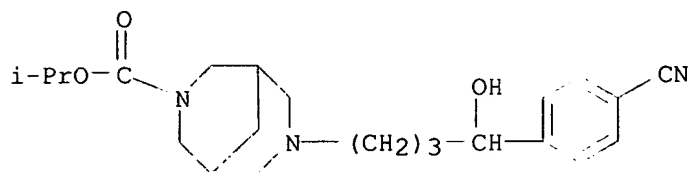


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

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L3 ANSWER 110 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-29-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-hydroxybutyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H31 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

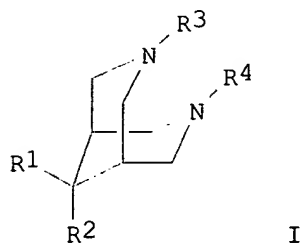


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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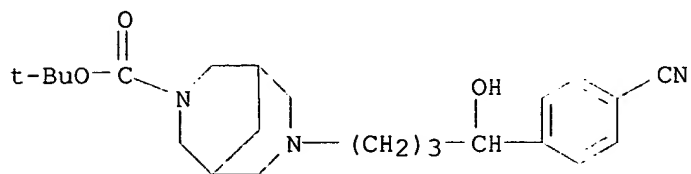


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 111 OF 150 REGISTRY COPYRIGHT 2002 ACS

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RN 227940-28-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-4-hydroxybutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H33 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

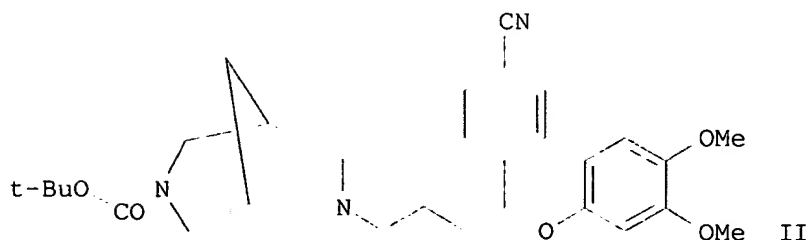
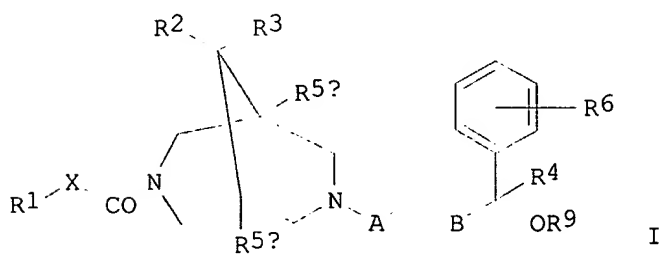


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42149 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Frantsi, Marianne; Hoffmann, Kurt-Jurgen; Strandlund, Gert (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000076997 A1 20001221, 60 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1251 20000615. PRIORITY: SE 1999-2271 19990616.

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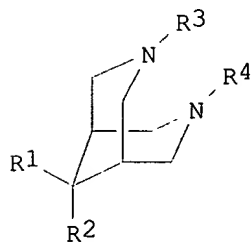
AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3, R4, R5a, R5b =

Searched by: Mary Hale 308-4258 CM-1 12D16

H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; R9 = alkyl, aryl, acyl, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from N,N'-dibenzylbispidine, 4-(1-hydroxy-3-butenyl)benzonitrile, and 3,4-dimethoxyphenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

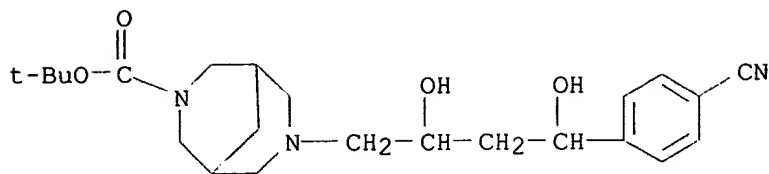
REFERENCE 2: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3)(II; R3 = H)(prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 112 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-27-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[4-(4-cyanophenyl)-2,4-dihydroxybutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H33 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

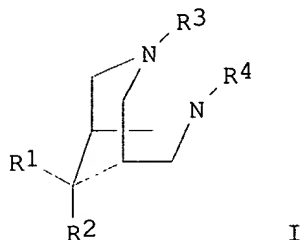


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

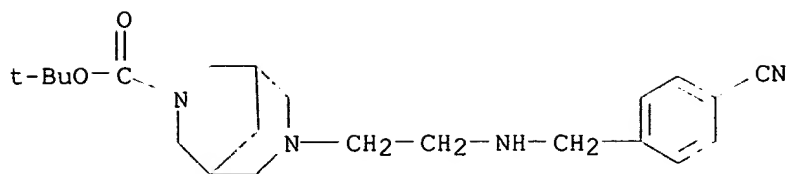


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 113 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-26-3 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-[[4-cyanophenyl)methyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H32 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

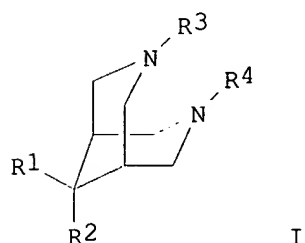


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

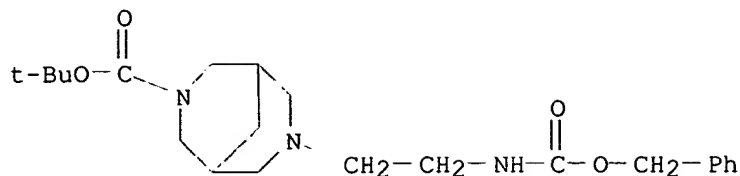
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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 114 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-25-2 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-
[[(phenylmethoxy)carbonyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C22 H33 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

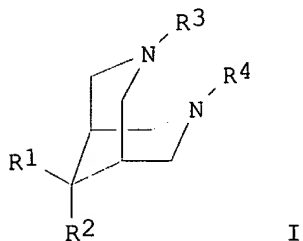


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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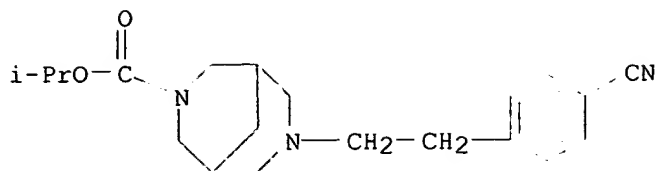


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 115 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-24-1 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-(4-cyanophenyl)ethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H27 N3 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

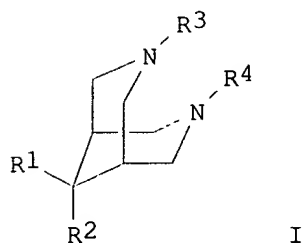


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

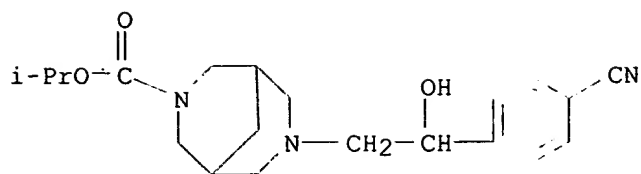
GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 116 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-23-0 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-(4-cyanophenyl)-2-hydroxyethyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H27 N3 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Searched by: Mary Hale 308-4258 CM-1 12D16

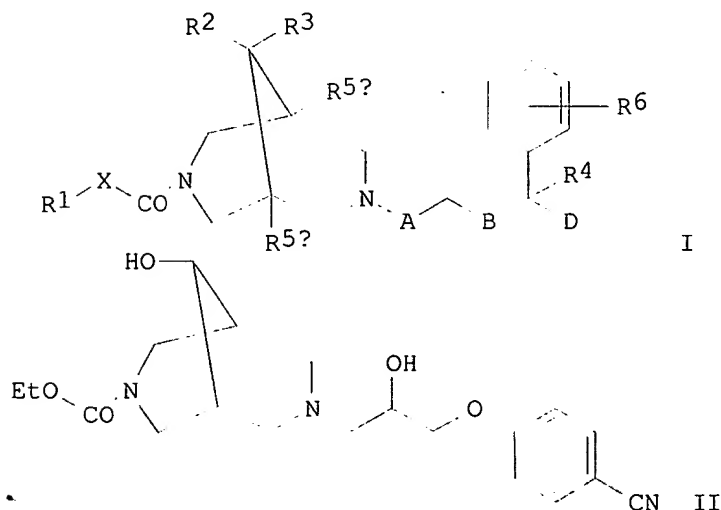


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:42151 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Bjore, Annika; Bjorsne, Magnus; Halvarsson, Torbjorn; Hoffmann, Kurt-jurgen; Samuelsson, Bertil; Strandlund, Gert (Astrazeneca Ab, Swed.). PCT Int. Appl. WO 2000076999 A1 20001221, 87 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1253 20000615. PRIORITY: SE 1999-2270 19990616.

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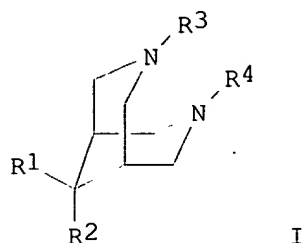


AB Bispidines, such as I [R1 = alkyl, arylalkyl, etc.; R2, R3 = H, OH, alkyl, etc.; R2R3 = O; R4, R5a, R5b = H, alkyl; R6 = OH, CN, NO2, NH2, halogen, etc.; X = O, S; A, B = bond, linking group, such as alkylene, etc.; D = H, OH, alkyl, aminoalkyl, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. in multistep synthetic sequence starting from Et 4-oxo-1-piperidinecarboxylate, epichlorohydrin, and 4-cyanophenol. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

Searched by: Mary Hale 308-4258 CM-1 12D16

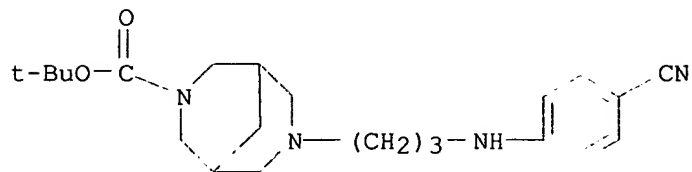
REFERENCE 2: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 117 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-21-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[(4-cyanophenyl)amino]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H32 N4 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



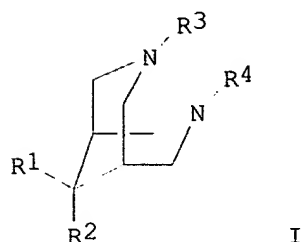
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

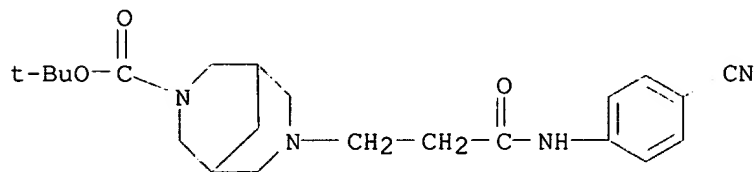
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 118 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-20-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[(4-cyanophenyl)amino]-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H30 N4 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



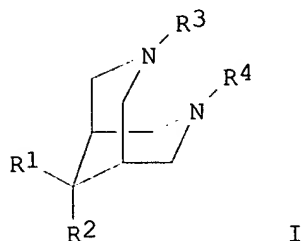
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

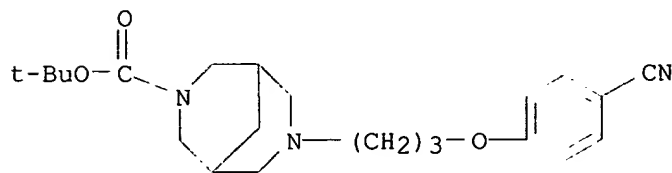
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 119 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-19-4 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H31 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

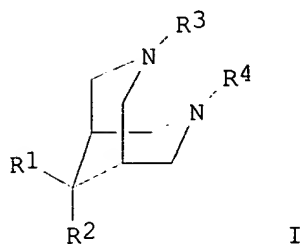
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-

Searched by: Mary Hale 308-4258 CM-1 12D16

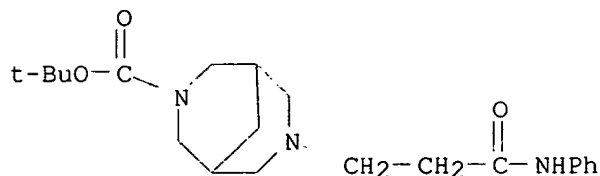
carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 120 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-18-3 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-oxo-3-(phenylamino)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H31 N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

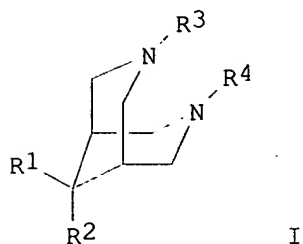
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-

Searched by: Mary Hale 308-4258 CM-1 12D16

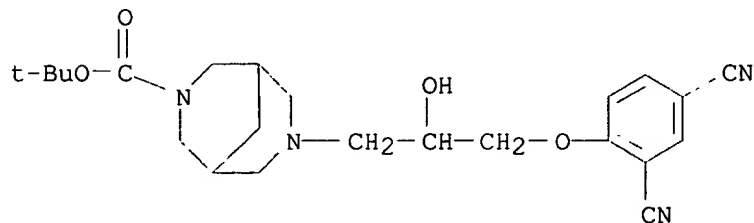
carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 121 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-17-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(2,4-dicyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H30 N4 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



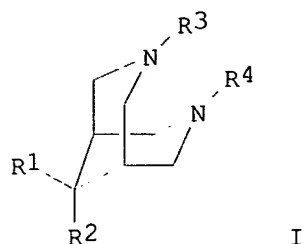
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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

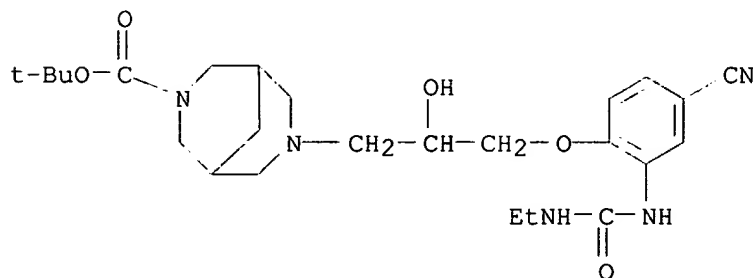
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 122 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-16-1 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[4-cyano-2-[[(ethylamino)carbonyl]amino]phenoxy]-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C25 H37 N5 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



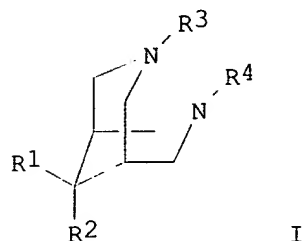
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Searched by: Mary Hale 308-4258 CM-1 12D16

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

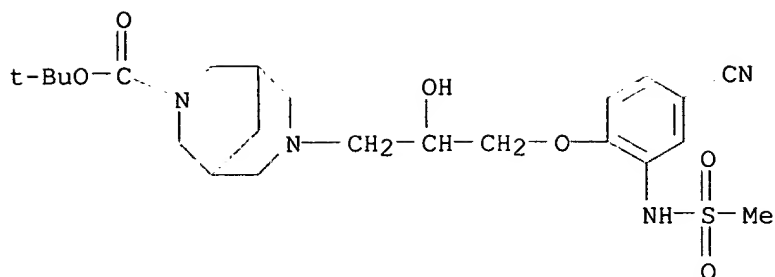
REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 123 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-15-0 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[4-cyano-2-[(methylsulfonyl)amino]phenoxy]-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H34 N4 O6 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

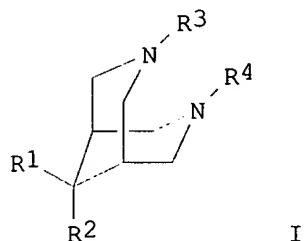


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 124 OF 150 REGISTRY COPYRIGHT 2002 ACS

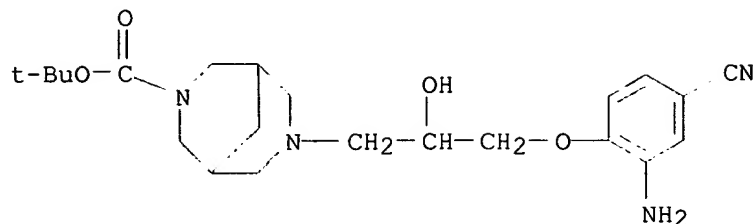
RN 227940-14-9 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(2-amino-4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

Searched by: Mary Hale 308-4258 CM-1 12D16

MF C22 H32 N4 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

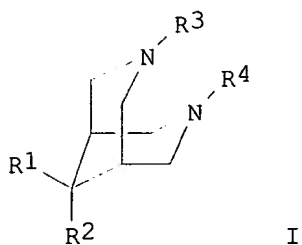


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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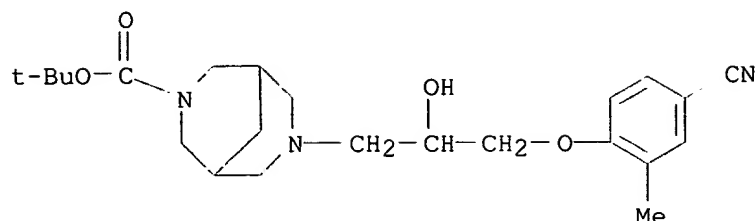


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 125 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-13-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyano-2-methylphenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX

Searched by: Mary Hale 308-4258 CM-1 12D16

NAME)
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 MF C23 H33 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

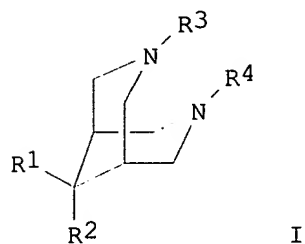


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REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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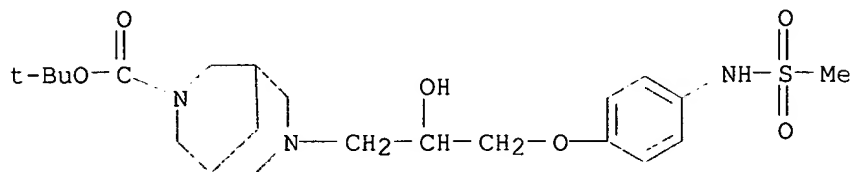
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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prep'd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 126 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-12-7 REGISTRY

Searched by: Mary Hale 308-4258 CM-1 12D16

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-hydroxy-3-[4-
[(methylsulfonyl)amino]phenoxy]propyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C22 H35 N3 O6 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

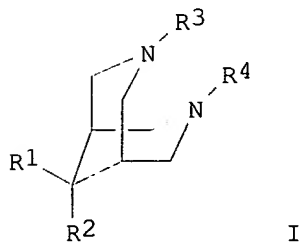


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

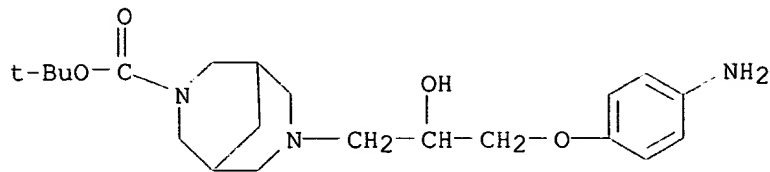


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 127 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-11-6 REGISTRY

Searched by: Mary Hale 308-4258 CM-1 12D16

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-aminophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H33 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

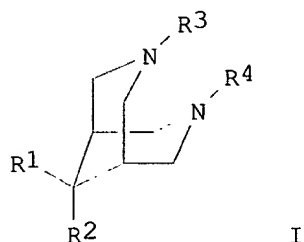


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
 DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
 APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



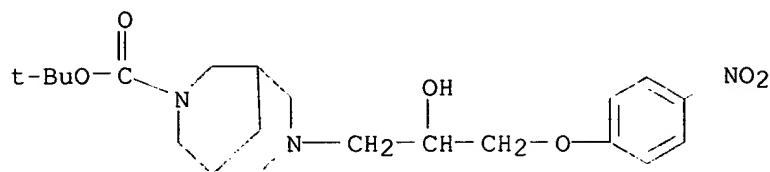
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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 128 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-10-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[2-hydroxy-3-(4-

Searched by: Mary Hale 308-4258 CM-1 12D16

nitrophenoxy)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H31 N3 O6
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

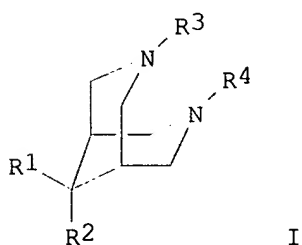


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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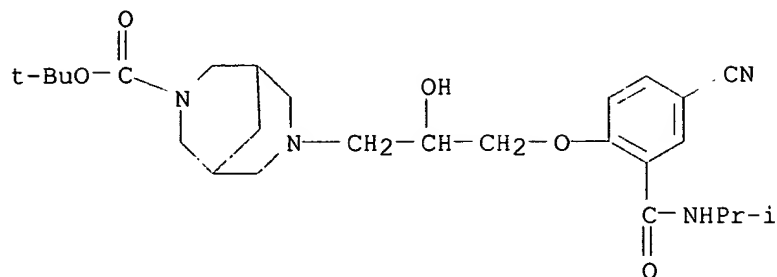
I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 129 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-09-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[4-cyano-2-[(1-methylethyl)amino]carbonyl]phenoxy]-2-hydroxypropyl]-, 1,1-dimethylethyl

Searched by: Mary Hale 308-4258 CM-1 12D16

ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H38 N4 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

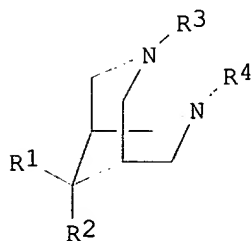


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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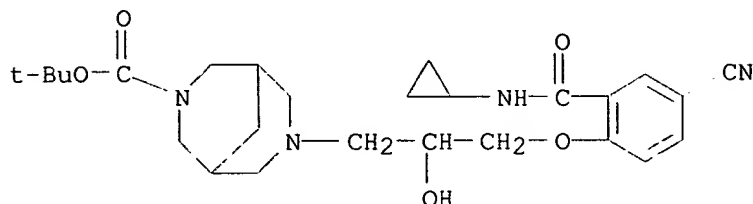


I

AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

Searched by: Mary Hale 308-4258 CM-1 12D16

L3 ANSWER 130 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-08-1 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-[4-cyano-2-
 [(cyclopropylamino)carbonyl]phenoxy]-2-hydroxypropyl]-, 1,1-dimethylethyl
 ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H36 N4 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

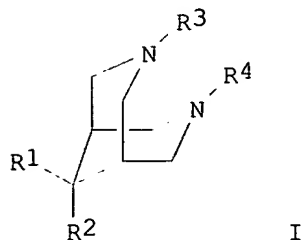


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
 DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
 APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

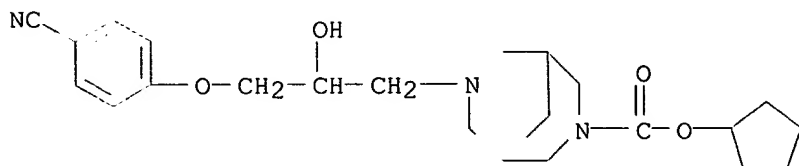


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3

Searched by: Mary Hale 308-4258 CM-1 12D16

= CH₂CH(OH)CH₂OC₆H₄(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 131 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-07-0 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, cyclopentyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H31 N3 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

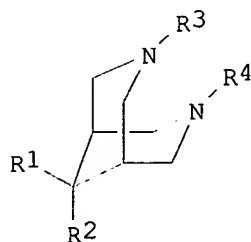


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

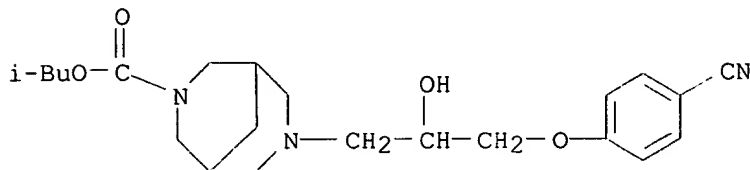


I

AB Title compds. [I; R₁, R₂ = H or alkyl; R₁R₂ = OCH₂CH₂O, (CH₂)₄₋₅; R₃ = CCR₁₀R₁₁A; A = bond, alkylene, (CH₂)_nZ, CONR₂₀, etc.; B = bond, alkylene, NR₂₃(CH₂)_r, O(CH₂)_r; R = (un)substituted Ph; R₄ = COXR₉; R₉ = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R₁₀ = H or OH; R₁₁, R₂₀, R₂₃ = H or alkyl; X = O or S; Z = NR₂₀, SOO-2, O; n, r = 0-4] were prepd. Thus, 4-(NC)C₆H₄OH was condensed with epichlorohydrin and the product aminated by I (R₁ = R₂ = H, R₄ = CO₂CMe₃) (II; R₃ = H) (prepn. given) to give II [R₃ = CH₂CH(OH)CH₂OC₆H₄(CN)-4]. Data for biol. activity of I were given.

Searched by: Mary Hale 308-4258 CM-1 12D16

L3 ANSWER 132 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-06-9 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H31 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

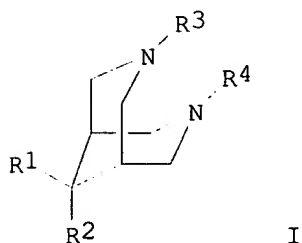


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.
 DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2.
 APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI

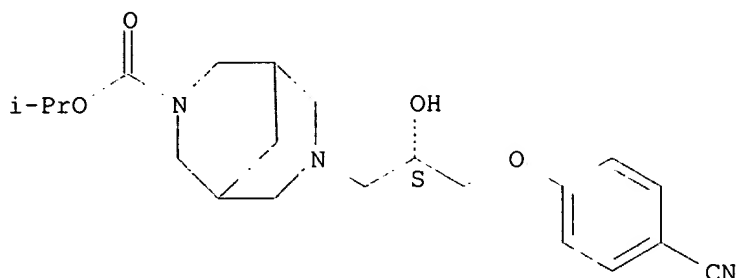


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3)(II; R3 = H)(prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

Searched by: Mary Hale 308-4258 CM-1 12D16

L3 ANSWER 133 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-05-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C21 H29 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

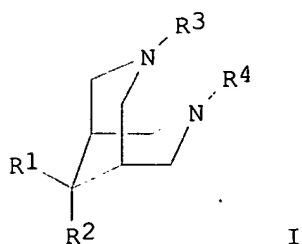


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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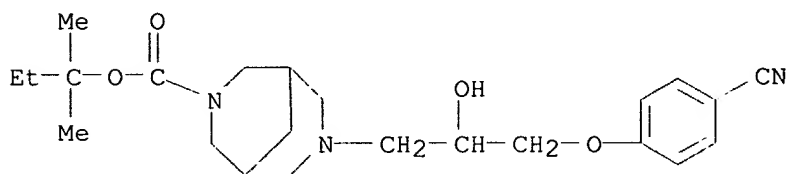


AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H

Searched by: Mary Hale 308-4258 CM-1 12D16

or alkyl; X = O or S; Z = NR₂₀, SOO-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C₆H₄OH was condensed with epichlorohydrin and the product aminated by I (R₁ = R₂ = H, R₄ = CO₂CMe₃) (II; R₃ = H) (prepn. given) to give II [R₃ = CH₂CH(OH)CH₂OC₆H₄(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 134 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-03-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylpropyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H33 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

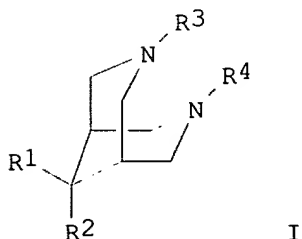


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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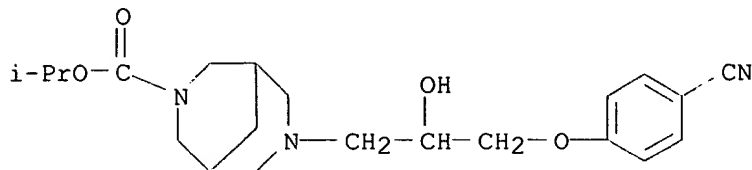


AB Title compds. [I; R₁,R₂ = H or alkyl; R₁R₂ = OCH₂CH₂O, (CH₂)₄₋₅; R₃ = CCR₁₀R₁₁AR; A = bond, alkylene, (CH₂)_nZ, CONR₂₀, etc.; B = bond, alkylene, NR₂₃(CH₂)_r, O(CH₂)_r; R = (un)substituted Ph; R₄ = COXR₉; R₉ = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R₁₀ = H or OH; R₁₁,R₂₀,R₂₃ = H or alkyl; X = O or S; Z = NR₂₀, SOO-2, O; n,r = 0-4] were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 135 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227940-02-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H29 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

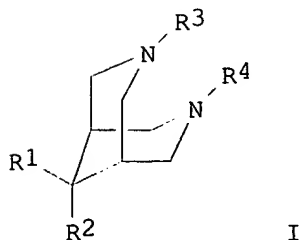


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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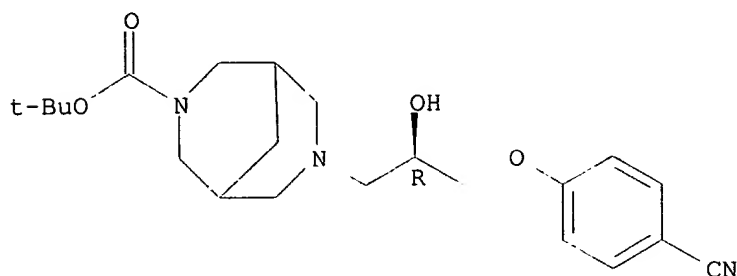
AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated

Searched by: Mary Hale 308-4258 CM-1 12D16

by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 136 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 227940-01-4 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2R)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H31 N3 O4
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:284247 A dried or frozen pharmaceutical preparation containing a class III antiarrhythmic compound. Bjore, Annika; Granath, Anna-Karin (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000021533 A1 20000420, 31 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-SE1828 19991011. PRIORITY: SE 1998-3517 19981015.

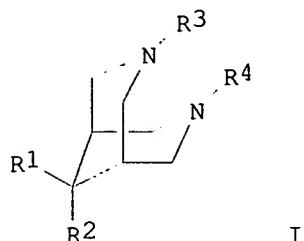
AB The present invention relates to dried preps. contg. a class III antiarrhythmic compd. in the form of cryst. or amorphous salt or any combination thereof, where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. The present invention also relates to frozen preps. contg. a class III antiarrhythmic compd. in the form of salt soln., where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. Preferred preps. contain a salt of the compd. 3,7-diazabicyclo[3.3.1]-nonane-3-carboxylic acid 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-1,1-dimethylethyl ester (Compd. A). Further aspects of the present invention include salts of Compd. A per se, processes for prepg. the prepn., as well as use of the preps. for prophylaxis and/or treatment of cardiac arrhythmia.

REFERENCE 2: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark,

Searched by: Mary Hale 308-4258 CM-1 12D16

Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 137 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 227940-00-3 REGISTRY

CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Adekalant

CN H 345/52

FS STEREOSEARCH

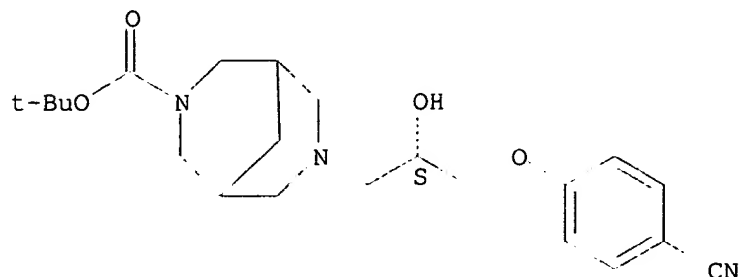
MF C22 H31 N3 O4

CI COM

SR CA

LC STN Files: CA, CAPLUS, DRUGNL, DRUGUPDATES, TOXCENTER, TOXLIT, USPATFULL

Absolute stereochemistry.



Searched by: Mary Hale 308-4258 CM-1 12D16

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:320683 Potassium and calcium current blocking properties of the novel antiarrhythmic agent H 345/52: implications for proarrhythmic potential. Amos, G. J.; Abrahamsson, C.; Duker, G.; Hondeghem, L.; Palmer, M.; Carlsson, L. (AstraZeneca Research & Development Molndal, Integrative Pharmacology, Moelndal, S-43183, Swed.). Cardiovasc. Res., 49(2), 351-360 (English) 2001. CODEN: CVREAU. ISSN: 0008-6363. Publisher: Elsevier Science B.V..

AB Objectives: To study the blocking effects of H 345/52 on ionic currents of rabbit ventricular myocytes and how these features translate into a proarrhythmic potential. Methods: The single electrode voltage clamp technique was used to study the effects of H 345/52 on the rapid component of the delayed rectifying potassium current, IKr, and the L-type calcium current (ICa). Differential effects of H 345/52 and almokalant on APD prolongation were studied in a rabbit Purkinje fiber/ventricular muscle prep. The temporal variability of the action potential duration (APD) and its relation to proarrhythmias was examd. in Langendorff-perfused rabbit hearts administered H 345/52 or almokalant. Anesthetized, methoxamine-sensitized rabbits were used to assess the propensity of i.v. H 345/52 and ibutilide to induce torsades de pointes (TdP). Results: H 345/52 potentially blocked IKr ($IC_{50}=40$ nM) without consequential use-dependency. The ICa was also blocked, but at higher concns. ($IC_{50}=1.3$ μ M). Block of ICa was markedly frequency-dependent (pos.) and influenced by membrane potential, such that H 345/52 was more effective following clamp steps from plateau potentials than from -80 mV. In the Purkinje fiber-ventricular muscle prep., almokalant prolonged the Purkinje fiber APD preferentially, whereas H 345/52 homogeneously prolonged APD in both tissue types. In the perfused rabbit heart, H 345/52 (1 μ M) and almokalant (0.3 μ M) prolonged APD to a similar degree but increased the temporal variability of APD differently, from $3. \pm .0.4$ ms in control hearts to $8. \pm .1.2$ ms and to $38. \pm .7.5$ ms ($P<0.001$ vs. H 345/52), resp. Unequivocal early after-depolarizations were seen in 5/6 almokalant-perfused hearts but in no heart administered H 345/52 ($P<0.05$). In anesthetized rabbits, H 345/52 (17.4 μ mol/kg) or ibutilide (2.6 μ mol/kg max.), maximally lengthened the QT interval from $133. \pm .4.5$ to $177. \pm .8.0$ ms and from $125. \pm .5.1$ to $166. \pm .9.3$ ms ($P<0.001$, $n=8$). However, whereas ibutilide induced TdP in all animals at $0.06. \pm .0.009$ μ mol/kg, H 345/52 did not induce TdP ($P=0.0002$) at up to 17.4 μ mol/kg. Conclusions: H 345/52 blocks IKr with high potency and ICa with somewhat lower potency and was found to delay ventricular repolarization without substantially increasing temporal or spatial dispersion and without inducing early after-depolarizations or TdP.

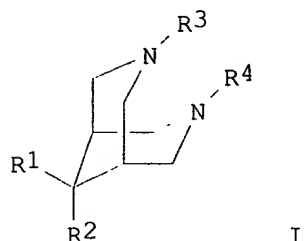
REFERENCE 2: 132:284247 A dried or frozen pharmaceutical preparation containing a class III antiarrhythmic compound. Bjore, Annika; Granath, Anna-Karin (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000021533 A1 20000420, 31 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1999-SE1828 19991011. PRIORITY: SE 1998-3517 19981015.

AB The present invention relates to dried preps. contg. a class III

antiarrhythmic compd. in the form of cryst. or amorphous salt or any combination thereof, where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. The present invention also relates to frozen preps. contg. a class III antiarrhythmic compd. in the form of salt soln., where the counterion is selected from pharmaceutically acceptable water-sol. org. or inorg. acids. Preferred preps. contain a salt of the compd. 3,7-diazabicyclo[3.3.1]nonane-3-carboxylic acid 7-[(2S)-3-(4-cyanophenoxy)-2-hydroxypropyl]-1,1-dimethylethyl ester (Compd. A). Further aspects of the present invention include salts of Compd. A per se, processes for prepg. the prepn., as well as use of the preps. for prophylaxis and/or treatment of cardiac arrhythmia.

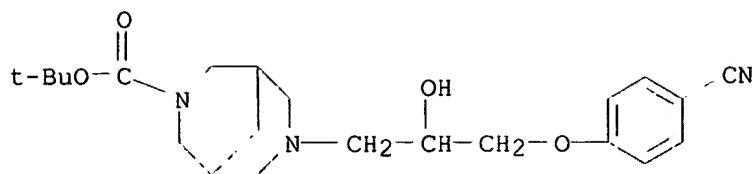
REFERENCE 3: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

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AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 138 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227939-99-3 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C22 H31 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



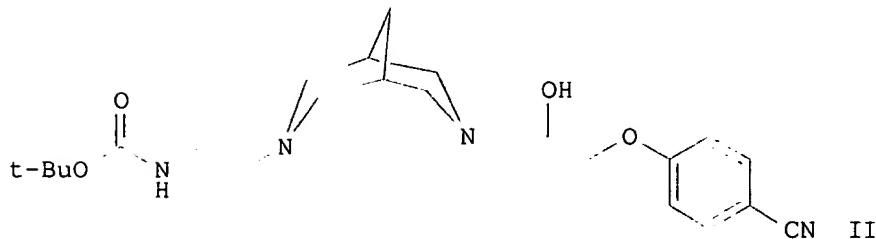
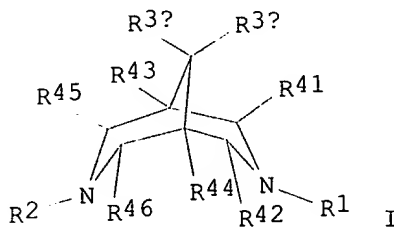
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:118479 Preparation of new bispidine compounds for the treatment of cardiac arrhythmias. Andersson, Kjell; Bjoere, Annika; Bjoersne, Magnus; Ponten, Fritiof; Strandlund, Gert; Svensson, Peder; Tottie, Louise (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2002004446 A1 20020117, 110 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-SE1544 20010704. PRIORITY: SE 2000-2603 20000707; SE 2000-2788 20000727.

GI



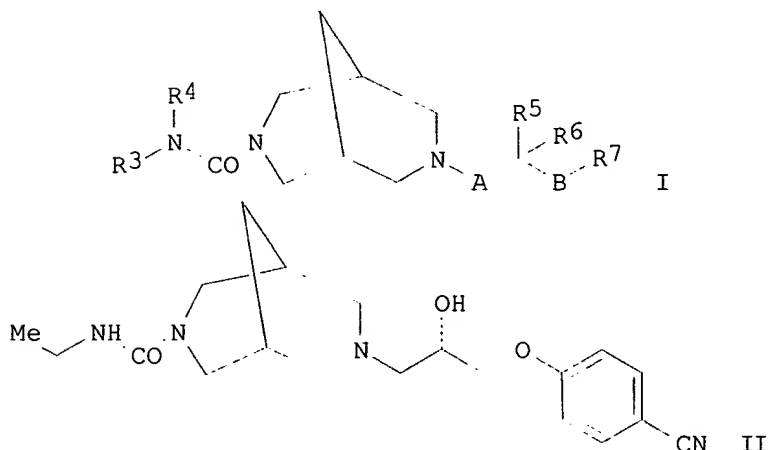
AB The title compds. [I; R1 = ACR4R5BR6 (wherein R4 = H, halo, alkyl, etc.; or R4, together with R5, = O; R5 = H, alkyl,; A = a bond, alkylene, etc.; B = a bond, alkylene, etc.; R6 = (un)substituted aryl, 5-12 membered heterocyclyl contg. one or more heteroatoms selected from O, N and/or S); R2 = CN, (un)substituted 5-12 membered heterocyclyl contg. one or more

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heteroatoms selected from O, N and/or S, etc.; R3a, R3b = H, alkyl, etc.; or R3a and R3b together = alkylene, O(alkylene)O, etc.; R41-R46 = H, alkyl] which are useful in the prophylaxis and in the treatment of arrhythmias, in particular atrial and ventricular arrhythmias, were prepd. E.g., a 3-step synthesis of II was given. The exemplified compds. I showed pIC50 of at least 5.5 in glucocorticoid-treated mouse fibroblasts as a model to detect blockers of the delayed rectifier K current.

REFERENCE 2: 134:56700 Preparation of new bispidines useful in the treatment of cardiac arrhythmias. Alstermark, Christer; Andersson, Kjell; Bjore, Annika; Bjorsne, Magnus; Lindstedt, Alstermark Eva-Lotte; Nilsson, Goran; Polla, Magnus; Strandlund, Gert; Ortengren, Ylva (Astrazeneca AB, Swed.). PCT Int. Appl. WO 2000077000 A1 20001221, 130 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-SE1254 20000615. PRIORITY: SE 1999-2268 19990616.

GI



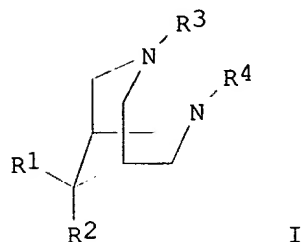
AB Bispidines, such as I [R3 = H, alkyl; R4 = H, alkyl, alkoxy; NR3R4 = heterocyclyl; R5 = H, halogen, alkyl, alkoxy, acyloxy, alkylsulfonyloxy, carbamoyl, etc.; R6 = H, alkyl; R5R6 = O; R7 = alkyl, aryl, heterocyclyl; A, B = bond, linking group, such as alkylene, etc.], were prepd. for pharmaceutical use in the treatment of cardiac arrhythmias, in particular atrial and ventricular arrhythmias. Thus, bispidine II was prepd. with 51% yield by amidation of (S)-4-[3-(3,7-diazabicyclo[3.3.1]non-3-yl)-2-hydroxypropoxy]benzonitrile with Et isocyanate. The prepd. bispidines were tested for primary electrophysiol. effects in anesthetized guinea pigs.

REFERENCE 3: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp.

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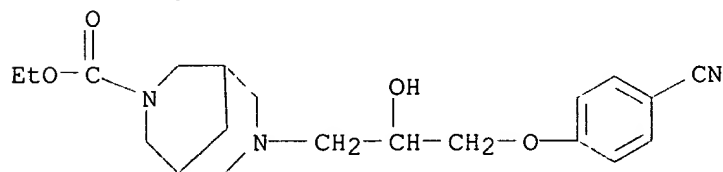
DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 139 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 227939-98-2 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[3-(4-cyanophenoxy)-2-hydroxypropyl]-, ethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H27 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

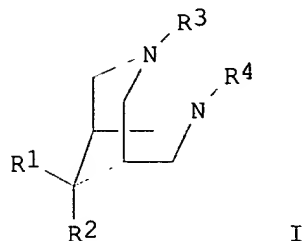
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 131:58860 Preparation of 3,7-diazabicyclo[3.3.1]nonane-3-carboxylates as antiarrhythmic agents. Strandlund, Gert; Alstermark, Christer; Bjore, Annika; Bjorsne, Magnus; Frantsi, Marianne; Halvarsson, Torbjorn; Hoffmann, Kurt-Jurgen; Lindstedt, Eva-Lotte; Polla, Magnus (Astra Aktiebolag, Swed.). PCT Int. Appl. WO 9931100 A1 19990624, 129 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,

Searched by: Mary Hale 308-4258 CM-1 12D16

CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-SE2276 19981210. PRIORITY: SE 1997-4709 19971217.

GI



AB Title compds. [I; R1,R2 = H or alkyl; R1R2 = OCH2CH2O, (CH2)4-5; R3 = CCR10R11AR; A = bond, alkylene, (CH2)nZ, CONR20, etc.; B = bond, alkylene, NR23(CH2)r, O(CH2)r; R = (un)substituted Ph; R4 = COXR9; R9 = alkyl, (un)substituted phenyl(alkyl), -naphthyl; R10 = H or OH; R11,R20,R23 = H or alkyl; X = O or S; Z = NR20, SO0-2, O; n,r = 0-4] were prepd. Thus, 4-(NC)C6H4OH was condensed with epichlorohydrin and the product aminated by I (R1 = R2 = H, R4 = CO2CMe3) (II; R3 = H) (prepn. given) to give II [R3 = CH2CH(OH)CH2OC6H4(CN)-4]. Data for biol. activity of I were given.

L3 ANSWER 140 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 183277-62-5 REGISTRY

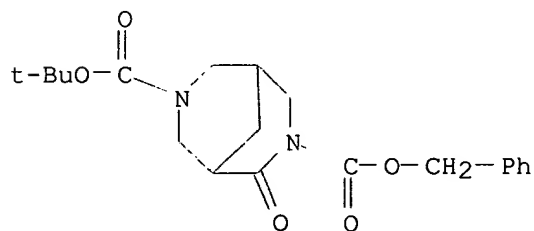
CN 3,7-Diazabicyclo[3.3.1]nonane-3,7-dicarboxylic acid, 2-oxo-, 7-(1,1-dimethylethyl) 3-(phenylmethyl) ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H26 N2 O5

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

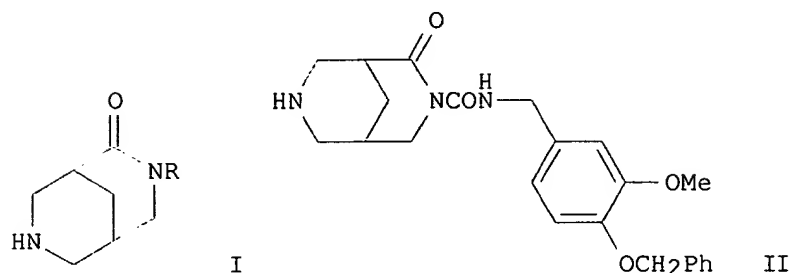
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:8107 Preparation of diazabicyclo(3.3.1)nonane derivatives for the treatment of Alzheimer's disease and cerebral function disorders. Kobayashi, Koji; Orita, Kazuhiro; Hamada, Atsushi; Inaba, Takashi; Abe, Hiroyuki; Miyazaki, Susumu (Japan Tobacco Inc., Japan). PCT Int. Appl. WO 9630372 A1 19961003, 128 pp. DESIGNATED STATES: W: AL, AU, BB, BG, BR,

Searched by: Mary Hale 308-4258 CM-1 12D16

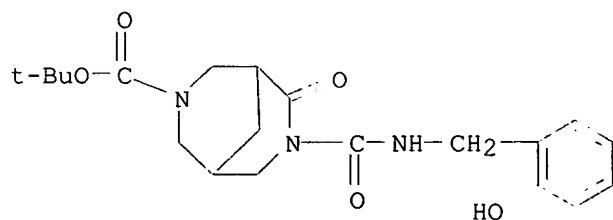
CA, CN, CZ, EE, GE, HU, IS, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (Japanese).
 CODEN: PIXXD2. APPLICATION: WO 1996-JP742 19960321. PRIORITY: JP 1995-66497 19950324.

GI



AB The title compds. I [R represents CONH(CHR₁)mR₂, etc.; R₁ represents hydrogen or alkyl; m is 0, 1 or 2; and R₂ represents optionally substituted aryl, optionally substituted heterocycle, optionally substituted cycloalkyl, alkyl or alkenyl] are prepd. I have nicotinic cholinergic effect and dopamine-releasing effect. In an in vitro test for affinity for the nicotinic acetylcholine receptors, the title compd. II fumaric acid salt showed IC₅₀ of 57 nM, vs. 25 nM for nicotine.

L3 ANSWER 141 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 183277-58-9 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[[[(2-hydroxyphenyl)methyl]amino]carbonyl]-6-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H27 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

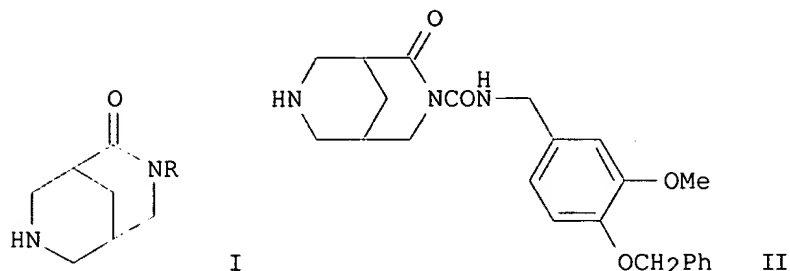
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:8107 Preparation of diazabicyclo(3.3.1)nonane derivatives for the treatment of Alzheimer's disease and cerebral function disorders. Kobayashi, Koji; Orita, Kazuhiro; Hamada, Atsushi; Inaba, Takashi; Abe, Hiroyuki; Miyazaki, Susumu (Japan Tobacco Inc., Japan). PCT Int. Appl. WO 9630372 A1 19961003, 128 pp. DESIGNATED STATES: W: AL, AU, BB, BG, BR,

Searched by: Mary Hale 308-4258 CM-1 12D16

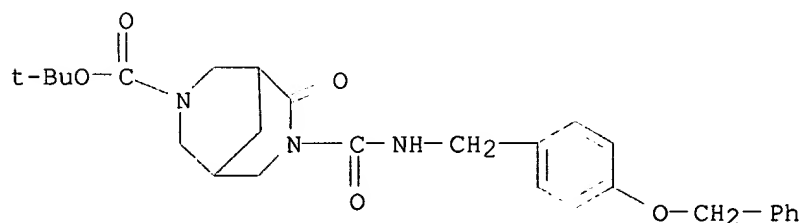
CA, CN, CZ, EE, GE, HU, IS, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (Japanese).
 CODEN: PIXXD2. APPLICATION: WO 1996-JP742 19960321. PRIORITY: JP 1995-66497 19950324.

GI



AB The title compds. I [R represents CONH(CHR₁)mR₂, etc.; R₁ represents hydrogen or alkyl; m is 0, 1 or 2; and R₂ represents optionally substituted aryl, optionally substituted heterocycle, optionally substituted cycloalkyl, alkyl or alkenyl] are prepd. I have nicotinic cholinergic effect and dopamine-releasing effect. In an in vitro test for affinity for the nicotinic acetylcholine receptors, the title compd. II fumaric acid salt showed IC₅₀ of 57 nM, vs. 25 nM for nicotine.

L3 ANSWER 142 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 183277-57-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 6-oxo-7-[[[4-(phenylmethoxy)phenyl]methyl]amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C27 H33 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

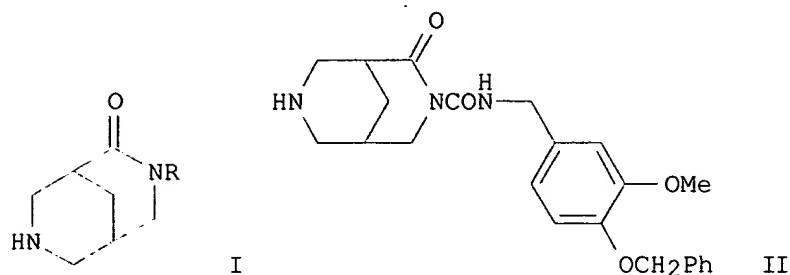
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:8107 Preparation of diazabicyclo(3.3.1)nonane derivatives for the treatment of Alzheimer's disease and cerebral function disorders. Kobayashi, Koji; Orita, Kazuhiro; Hamada, Atsushi; Inaba, Takashi; Abe, Hiroyuki; Miyazaki, Susumu (Japan Tobacco Inc., Japan). PCT Int. Appl. WO 9630372 A1 19961003, 128 pp. DESIGNATED STATES: W: AL, AU, BB, BG, BR,

Searched by: Mary Hale 308-4258 CM-1 12D16

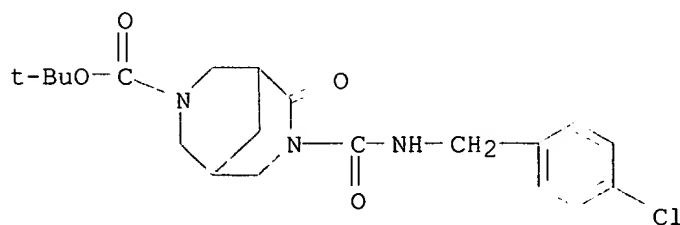
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 CODEN: PIXXD2. APPLICATION: WO 1996-JP742 19960321. PRIORITY: JP 1995-66497 19950324.

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AB The title compds. I [R represents CONH(CHR1)mR2, etc.; R1 represents hydrogen or alkyl; m is 0, 1 or 2; and R2 represents optionally substituted aryl, optionally substituted heterocycle, optionally substituted cycloalkyl, alkyl or alkenyl] are prepd. I have nicotinic cholinergic effect and dopamine-releasing effect. In an in vitro test for affinity for the nicotinic acetylcholine receptors, the title compd. II fumaric acid salt showed IC50 of 57 nM, vs. 25 nM for nicotine.

L3 ANSWER 143 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 183277-56-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[[[(4-chlorophenyl)methyl]amino]carbonyl]-6-oxo-, 1,1-dimethylethyl ester (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H26 Cl N3 O4
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

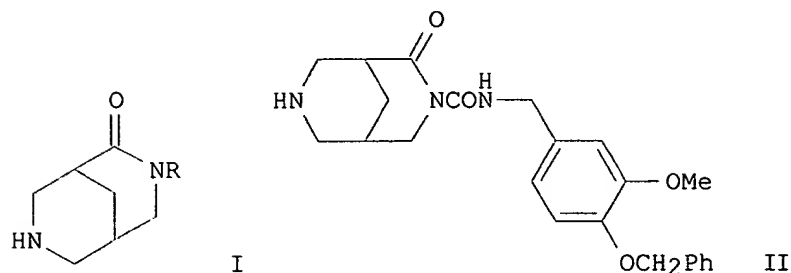
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:8107 Preparation of diazabicyclo(3.3.1)nonane derivatives for the treatment of Alzheimer's disease and cerebral function disorders. Kobayashi, Koji; Orita, Kazuhiro; Hamada, Atsushi; Inaba, Takashi; Abe, Hiroyuki; Miyazaki, Susumu (Japan Tobacco Inc., Japan). PCT Int. Appl. WO 9630372 A1 19961003, 128 pp. DESIGNATED STATES: W: AL, AU, BB, BG, BR,

Searched by: Mary Hale 308-4258 CM-1 12D16

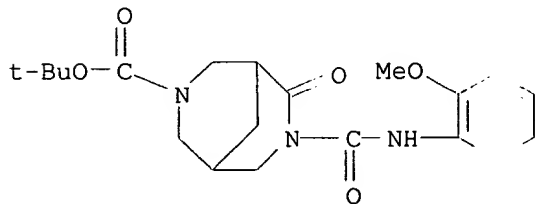
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 CODEN: PIXXD2. APPLICATION: WO 1996-JP742 19960321. PRIORITY: JP 1995-66497 19950324.

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AB The title compds. I [R represents CONH(CHR₁)mR₂, etc.; R₁ represents hydrogen or alkyl; m is 0, 1 or 2; and R₂ represents optionally substituted aryl, optionally substituted heterocycle, optionally substituted cycloalkyl, alkyl or alkenyl] are prepd. I have nicotinic cholinergic effect and dopamine-releasing effect. In an in vitro test for affinity for the nicotinic acetylcholine receptors, the title compd. II fumaric acid salt showed IC₅₀ of 57 nM, vs. 25 nM for nicotine.

L3 ANSWER 144 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 183277-55-6 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[[2-methoxyphenyl)amino]carbonyl]-6-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H27 N3 O5
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

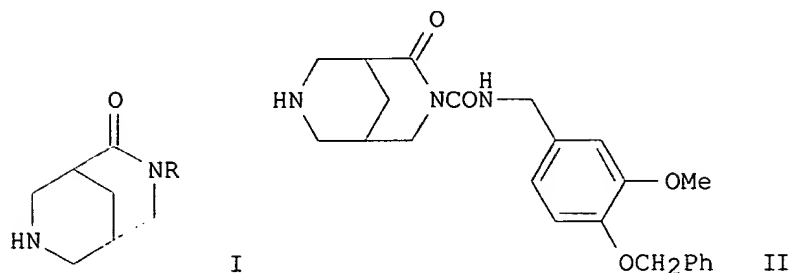
1 REFERENCES IN FILE CA (1967 TO DATE)
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REFERENCE 1: 126:8107 Preparation of diazabicyclo(3.3.1)nonane derivatives for the treatment of Alzheimer's disease and cerebral function disorders. Kobayashi, Koji; Orita, Kazuhiro; Hamada, Atsushi; Inaba, Takashi; Abe, Hiroyuki; Miyazaki, Susumu (Japan Tobacco Inc., Japan). PCT Int. Appl. WO 9630372 A1 19961003, 128 pp. DESIGNATED STATES: W: AL, AU, BB, BG, BR,

Searched by: Mary Hale 308-4258 CM-1 12D16

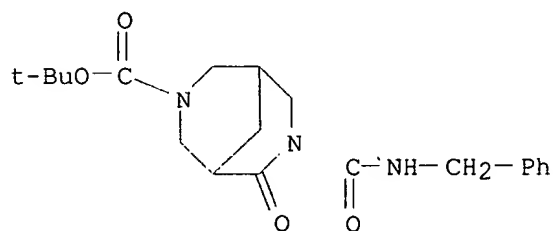
CA, CN, CZ, EE, GE, HU, IS, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (Japanese).
 CODEN: PIXXD2. APPLICATION: WO 1996-JP742 19960321. PRIORITY: JP 1995-66497 19950324.

GI



AB The title compds. I [R represents CONH(CHR₁)mR₂, etc.; R₁ represents hydrogen or alkyl; m is 0, 1 or 2; and R₂ represents optionally substituted aryl, optionally substituted heterocycle, optionally substituted cycloalkyl, alkyl or alkenyl] are prepd. I have nicotinic cholinergic effect and dopamine-releasing effect. In an in vitro test for affinity for the nicotinic acetylcholine receptors, the title compd. II fumaric acid salt showed IC₅₀ of 57 nM, vs. 25 nM for nicotine.

L3 ANSWER 145 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 183277-54-5 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 6-oxo-7-
 [[(phenylmethyl)amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H27 N3 O4
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

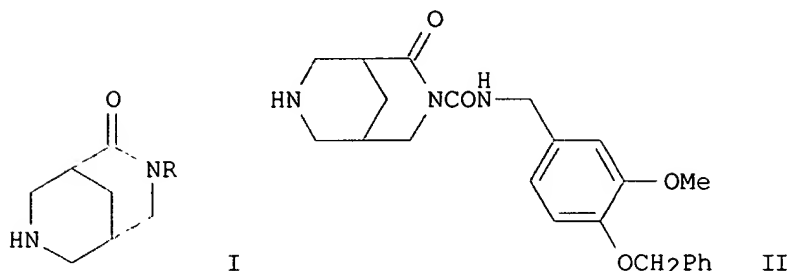
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:8107 Preparation of diazabicyclo(3.3.1)nonane derivatives for the treatment of Alzheimer's disease and cerebral function disorders. Kobayashi, Koji; Orita, Kazuhiro; Hamada, Atsushi; Inaba, Takashi; Abe, Hiroyuki; Miyazaki, Susumu (Japan Tobacco Inc., Japan). PCT Int. Appl. WO 9630372 A1 19961003, 128 pp. DESIGNATED STATES: W: AL, AU, BB, BG, BR,

Searched by: Mary Hale 308-4258 CM-1 12D16

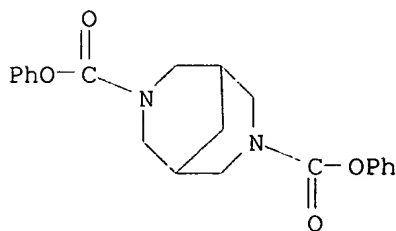
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 CODEN: PIXXD2. APPLICATION: WO 1996-JP742 19960321. PRIORITY: JP 1995-66497 19950324.

GI



AB The title compds. I [R represents CONH(CHR₁)mR₂, etc.; R₁ represents hydrogen or alkyl; m is 0, 1 or 2; and R₂ represents optionally substituted aryl, optionally substituted heterocycle, optionally substituted cycloalkyl, alkyl or alkenyl] are prepd. I have nicotinic cholinergic effect and dopamine-releasing effect. In an in vitro test for affinity for the nicotinic acetylcholine receptors, the title compd. II fumaric acid salt showed IC₅₀ of 57 nM, vs. 25 nM for nicotine.

L3 ANSWER 146 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 102660-79-7 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3,7-dicarboxylic acid, diphenyl ester (6CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H22 N2 O4
 SR CAOLD
 LC STN Files: BEILSTEIN*, CAOLD
 (*File contains numerically searchable property data)



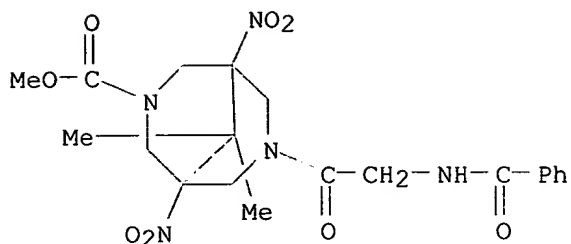
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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 147 OF 150 REGISTRY COPYRIGHT 2002 ACS
 RN 89250-90-8 REGISTRY
 CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-[(benzoylamino)acetyl]-9,9-dimethyl-1,5-dinitro-, methyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H25 N5 O8

Searched by: Mary Hale 308-4258 CM-1 12D16

LC STN Files: CA, CAPLUS, CASREACT

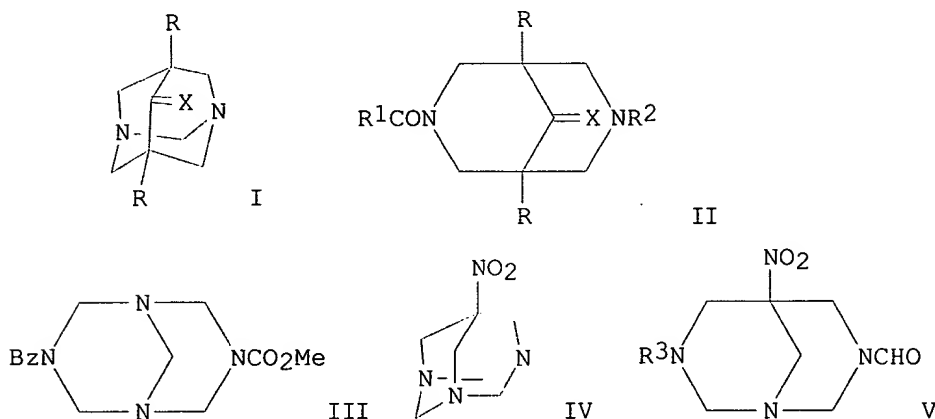


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 100:156576 Synthesis and transformations of polyhedral compounds. VII. Ring opening of azaadamantanes by mixed anhydrides. Agadzhanian, Ts. E.; Arutyunyan, G. L.; Minasyan, G. G.; Movsesyan, R. A. (Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR). Arm. Khim. Zh., 36(10), 669-72 (Russian) 1983. CODEN: AYKZAN. ISSN: 0515-9628.

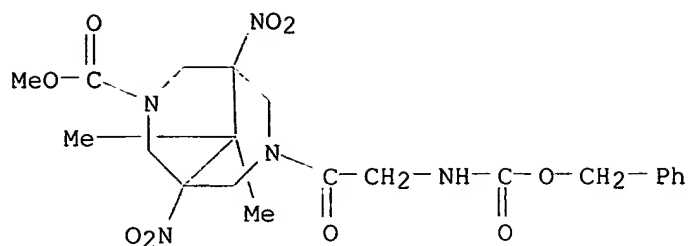
GI



AB Diazaadamantanes I ($R = \text{NO}_2$, $X = \text{Me}_2$) was treated with $\text{R}_1\text{CO}_2\text{CO}_2\text{Me}$ ($\text{R}_1 = \text{PhCH}_2\text{O}_2\text{CNHCH}_2$, BzNHCH_2) to give diazabicyclononanes II ($\text{R}_2 = \text{CO}_2\text{Me}$). Analogously, urotropine and BzOCO_2Me gave 40% tetraazabicyclononane III. Treating I ($R = \text{Ph}$, $X = \text{O}$) with HCO_2OAc gave 42% II ($R = \text{Ph}$, $\text{R}_1 = \text{H}$, $\text{R}_2 = \text{CHO}$). Addnl. obtained from triazaadamantane IV were triazabicyclononanes V ($\text{R}_3 = \text{CHO}$, Ac).

L3 ANSWER 148 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 89250-89-5 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 9,9-dimethyl-1,5-dinitro-7-[[[(phenylmethoxy)carbonyl]amino]acetyl]-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H27 N5 O9
LC STN Files: CA, CAPLUS, CASREACT

Searched by: Mary Hale 308-4258 CM-1 12D16

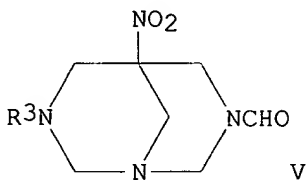
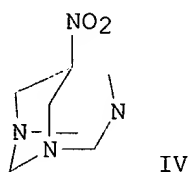
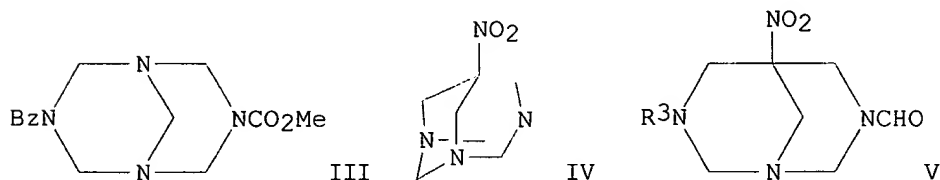
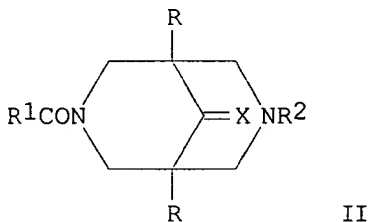
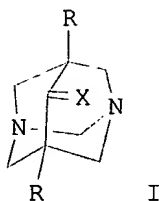


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

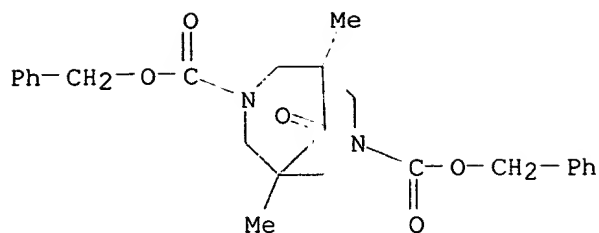
REFERENCE 1: 100:156576 Synthesis and transformations of polyhedral compounds. VII. Ring opening of azaadamantanes by mixed anhydrides. Agadzhanyan, Ts. E.; Arutyunyan, G. L.; Minasyan, G. G.; Movsesyan, R. A. (Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR). Arm. Khim. Zh., 36(10), 669-72 (Russian) 1983. CODEN: AYKZAN. ISSN: 0515-9628.

GI



AB Diazaadamantanes I (R = NO₂, X = Me₂) was treated with R₁CO₂CO₂Me (R₁ = PhCH₂O₂CNHCH₂, BzNHCH₂) to give diazabicyclononanes II (R₂ = CO₂Me). Analogously, urotropine and BzOCO₂Me gave 40% tetraazabicyclononane III. Treating I (R = Ph, X = O) with HCO₂OAc gave 42% II (R = Ph, R₁ = H, R₂ = CHO). Addnl. obtained from triazaadamantane IV were triazabicyclononanes V (R₃ = CHO, Ac).

L3 ANSWER 149 OF 150 REGISTRY COPYRIGHT 2002 ACS
RN 80808-93-1 REGISTRY
CN 3,7-Diazabicyclo[3.3.1]nonane-3,7-dicarboxylic acid, 1,5-dimethyl-9-oxo-, bis(phenylmethyl) ester (9CI) (CA INDEX NAME)
MF C₂₅ H₂₈ N₂ O₅
LC STN Files: CA, CAPLUS, CHEMCATS

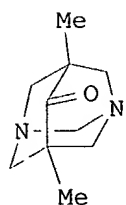


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

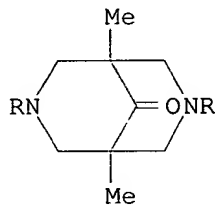
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 96:104172 Synthesis and reactions of polyhedral compounds. II. Synthesis of 5,7-dimethyl-1,3-diazaadamantan-6-one and -6-ol and their conversion into 3,7-diacyl(dicarbalkoxy, diarylsulfonyl)-3,7-diazabicyclo[3,3,1]nonanes. Agadzhanian, Ts. E.; Arutyunyan, G. L. (Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR). Arm. Khim. Zh., 34(11), 963-8 (Russian) 1981. CODEN: AYKZAN. ISSN: 0515-9628.

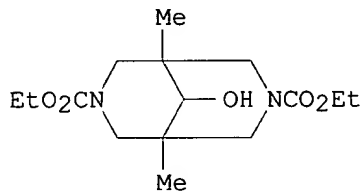
GI



I



II



III

AB Cyclocondensation of EtCOEt, HCHO, and ACONH₄ gave 19.5% I, which reacted with RCOCl, RO₂CCl, or ArSO₂Cl to give II [R = BrCH₂CO, BrCH₂CH₂CO, CH₂:CHCO, Bz, (phthalimidomethoxy)carbonyl, EtOCO, PhCH₂OCO, 4-MeC₆H₄SO₂, 4-(MeO₂CNH)C₆H₄SO₂]. LiAlH₄ redn. of I gave 83.3% alc., which with ClCO₂Et gave III.

L3 ANSWER 150 OF 150 REGISTRY COPYRIGHT 2002 ACS

RN 7038-02-0 REGISTRY

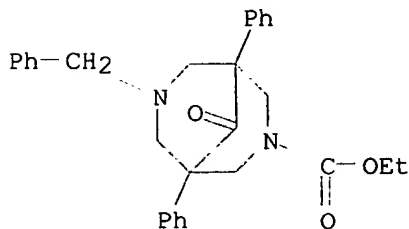
CN 3,7-Diazabicyclo[3.3.1]nonane-3-carboxylic acid, 7-benzyl-9-oxo-1,5-diphenyl-, ethyl ester (7CI, 8CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H30 N2 O3

LC STN Files: BEILSTEIN*, CAOLD

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil caol;s 13

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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L4 2 L3

=> d 1-2

L4 ANSWER 1 OF 2 CAOLD COPYRIGHT 2002 ACS
AN CA65:8914b CAOLD
TI reactions with chloroacetaldehyde and 2,4-dichlorocrotonaldehyde
AU Kopp, Erwin; Smidt, J.
IT 105-39-5 105-48-6 107-20-0 274-76-0 1129-52-8 2929-73-9
3848-12-2 5409-75-6 6855-74-9 6855-92-1 6860-87-3 7038-01-9
7038-02-0 7038-05-3 7038-06-4 7038-07-5 7038-08-6
7038-09-7 7038-10-0 7038-11-1 7038-12-2 7038-14-4 7038-15-5
7038-16-6 7038-17-7 7038-18-8 7038-20-2 7038-23-5 7038-24-6
7038-25-7 7166-44-1 7166-45-2 7166-46-3 7166-48-5 7166-50-9
7166-51-0 7166-52-1 7166-53-2 7166-54-3 26394-31-0 89123-76-2
90153-90-5

L4 ANSWER 2 OF 2 CAOLD COPYRIGHT 2002 ACS
AN CA52:7312e CAOLD
TI compds. with urotropine structure - (IX) bispidine
AU Stetter, Hermann; Merten, R.
IT 280-74-0 281-30-1 6711-35-9 98433-39-7 99669-80-4 101117-22-0
102660-79-7 110570-65-5 112948-63-7 128687-08-1 129067-62-5

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